

C. H. Goldthwaite & Co.  
186 Washington St. Boston



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# SURGICAL

Instruments *and* Appliances.

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C. H. GOLDTHWAITE & CO.

186 Washington Street,

Boston, Mass.,

U. S. A.



ILLUSTRATIONS  
AND PRICES.

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1894

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WM. F. FELL & CO.,  
ELECTROTYPERS AND PRINTERS,  
1220-24 Sansom Street,  
Philadelphia, Pa.

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## PREFACE.

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After the first ten years of our business career, we take pleasure in presenting to you our first illustrated catalogue.

We have made our prices, in general, NET. This point we believe will be appreciated by those ordering our wares, saving time and trouble in looking up discounts.

It is not necessary to cut or mutilate this book, reference to NUMBER will clearly indicate to us what is wished.

On account of the great expense involved in carrying small accounts, we must expect remittance to cover amount with small orders. This rule must not be construed to be a reflection upon credit.

Remittances may be made by P. O. Order, Postal Note, Express Money Order, or Check.

Soliciting your favors, we are

Yours to command,

C. H. GOLDTHWAITE & CO.



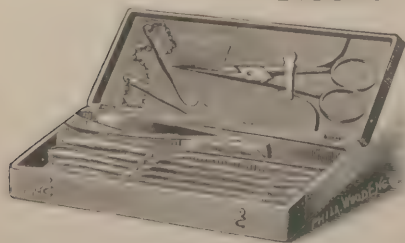




## DISSECTING AND POST-MORTEM INSTRUMENTS.

NO.		PRICE
1.	Cartilage Knife, all steel, . . . . .	\$0 50
2.	Scalpel, 4 sizes, ivory handle, . . . . . each	65
3.	“ 4 sizes, ebony handle, . . . . . “	45
4.	Tenaculum, ivory handle, . . . . .	65
5.	“ ebony handle, . . . . .	45
6.	Dissecting Forceps, . . . . .	50
7.	“ Scissors, straight, . . . . .	50
8.	“ “ curved on flat, . . . . .	75
9.	Grooved Director, . . . . .	50
10.	Blowpipe, . . . . .	15
11.	Chain and Hooks, . . . . .	25
12.	Finnell's Set, consisting of Saw, Reamer, and Chisel in one handle, . . . . .	4 00
13.	Clamp for Skull, . . . . .	7 00
14.	Arterytome, . . . . .	2 00
15.	Post-Mortem Needle, straight, . . . . .	10
16.	“ “ “ curved, . . . . .	10
17.	Cartilage Knife, heavy, ebony handle, . . . . .	1 00
18.	Post-Mortem Scalpel, 3 sizes, ebony handle, . . . . . each	75
19.	Costotome Chisel, . . . . .	1 25
20.	Post-Mortem Hammer, . . . . .	1 75
21.	Rachitome Chisel, . . . . .	1 25
22.	Reamer, . . . . .	85
23.	Enterotome, . . . . .	1 75
24.	Plain Chisel, . . . . .	50
25.	Double Rachitome Saw, . . . . .	11 50
26.	Post-Mortem Saw, ebony handle, . . . . .	2 50
27.	Grappling Hook, . . . . .	50
28.	Costotome or Rib Shears, . . . . .	4 00
29.	Brain Knife, ebony handle, . . . . .	1 50

## DISSECTING CASES.



**No. 39.**

- |     |   |      |
|-----|---|------|
| 35. | Dissecting Case, contains 1 Scalpel, 1 Tenaculum, 1 Cartilage Knife, 1 Scissors, 1 Spring Forceps, 1 Chain Hook, 1 Blowpipe; ebony handles, polished wood case, . . . . . | 2 00 |
| 36. | Dissecting Case, contains same as No. 35, but with ivory handles, . . . . .   | 2 50 |
| 37. | Dissecting Case, contains same as No. 35, but with 2 Scalpels, ebony handle, . . . . .  | 2 50 |

The boldface numbers represent instruments illustrated.





C. H. GOLDTHWAITE & CO.,

### DISSECTING CASES—Continued.

NO.	DESCRIPTION.	PRICE.
38.	Dissecting Case, contains same as No. 37, but with ivory handles,	\$3 15
39.	Dissecting Case, contains same as No. 35, but with 3 Scalpels, ebony handles, . . . . .	3 00
40.	Dissecting Case, contains same as No. 39, but with ivory handles,	3 50
41.	Dissecting Case, contains same as No. 35, but with 4 Scalpels and 1 Grooved Director, ebony handles, . . . . .	4 00
42.	Dissecting Case, contains same as No. 41, but with ivory handles,	4 50

## POST-MORTEM CASES.



No. 44.

43. Post-Mortem Case, contains 1 Post-Mortem Saw, 1 Hammer, 1 Chisel, 1 Large Knife, 3 Post-Mortem Scalpels, 1 Tenaculum, 1 Scissors, 1 Blowpipe, 1 Dissecting Forceps, 2 Needles, 1 skein Silk; in mahogany case, . . . . . 12 00

44. Post-Mortem Case (Finnell's), contains 1 Large Knife and Saw in one handle, 3 Scalpels, 1 Cartilage Knife, 1 Tenaculum, 1 Chisel, 1 Dissecting Forceps, 1 Scissors, 1 Chain and Hooks, 1 Blowpipe, 1 Post-Mortem Needle, 2 skeins of Silk; in mahogany case, . . . . . 9 00

45. Post-Mortem Case, contains 1 Hammer, 1 Rib Shears, 1 Large Cartilage Knife, 2 Post-Mortem Scalpels, 1 Dissecting Forceps, 1 Tenaculum, 1 Enterotome, 1 Knife and Saw to fit in one handle, 1 Chisel, 1 Reamer, 1 Chain and Hooks, 1 Scissors, 2 Needles, 1 skein Silk; mahogany case, . . . . . 18 00

### OTHER POST-MORTEM CASES PUT UP TO ORDER.

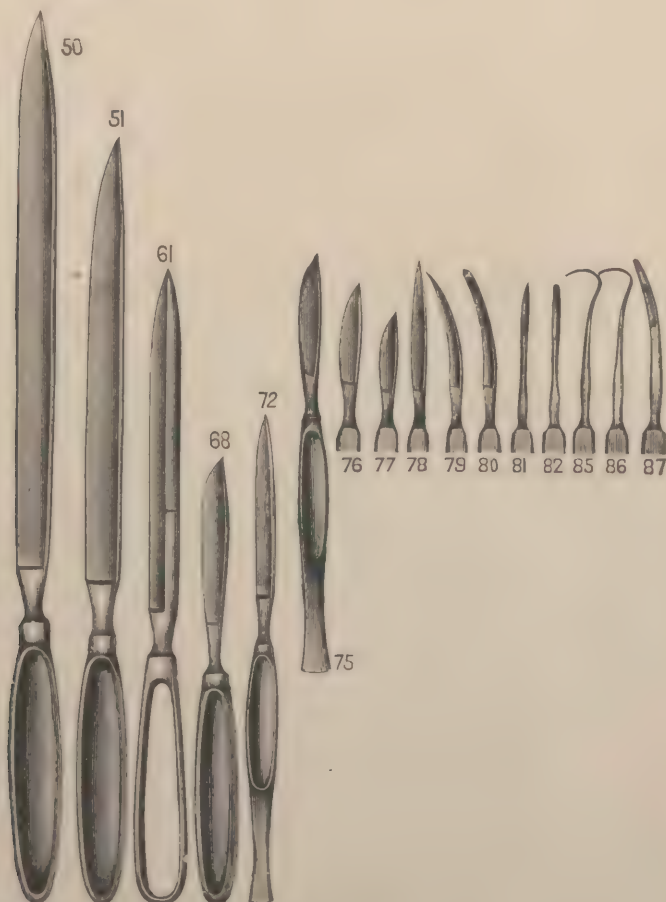
## INSTRUMENTS FOR GENERAL AND MINOR OPERATIONS.

<b>50.</b>	Amputating Knife, large, hollow metal handle,	. . . . .	3 00
<b>51.</b>	" " medium, " "	. . . . .	2 65
<b>52.</b>	" " small, " "	. . . . .	2 25
<b>53.</b>	Catling, large,	" " "	3 00
<b>54.</b>	" medium,	" " "	2 65
<b>55.</b>	" small,	" " "	2 25

The boldface numbers represent instruments illustrated.

INSTRUMENTS FOR GENERAL AND MINOR  
OPERATIONS—Continued.

NO.		PRICE
56.	Amputating Knife, large, fenestrated, metal handle, . . . . .	\$2 75
57.	" " medium, " " " . . . . .	2 40
58.	" " small, " " " . . . . .	2 00
59.	Catling, large, " " " . . . . .	2 75
60.	" medium, " " " . . . . .	2 40
61.	" small, " " " . . . . .	2 00



62.	Amputating Knife, large, ebony handle, . . . . .	2 50
63.	" " medium, " " . . . . .	2 25
64.	" " small, " " . . . . .	2 00
65.	Catling, large, " " . . . . .	2 50
66.	" medium, " " . . . . .	2 25
67.	" small, " " . . . . .	2 00

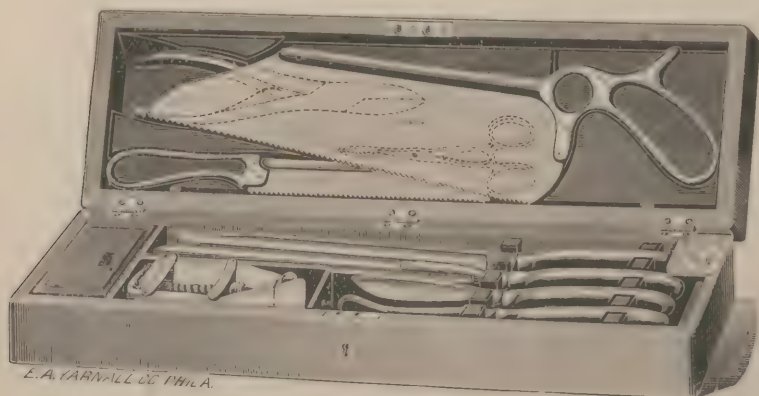
The boldface numbers represent instruments illustrated.



# C. H. GOLDTHWAITE & CO.,

## INSTRUMENTS FOR GENERAL AND MINOR OPERATIONS—Continued.

NO.		PRICE.
<b>68.</b>	Amputating Scalpel, hollow metal handle, . . . . .	\$1 25
<b>69.</b>	“ “ ebony handle, . . . . .	1 00
<b>70.</b>	Amputating Tenaculum, hollow metal handle, . . . . .	1 25
<b>71.</b>	“ “ ebony handle, . . . . .	75
<b>72.</b>	Neill's Finger Knife, hollow metal handle, . . . . .	1 50
<b>73.</b>	“ “ “ ebony handle, . . . . .	1 25
<b>74.</b>	Scalpel and Raspatory, . . . . .	1 25
<b>75.</b>	Scalpel, large, hollow metal handle, . . . . .	1 25
<b>76.</b>	“ medium, “ “ “ . . . . .	1 25
<b>77.</b>	“ small, “ “ “ . . . . .	1 25
<b>78.</b>	Straight Bistoury, hollow metal handle, . . . . .	1 25
<b>79.</b>	Curved “ sharp point, hollow metal handle, . . . . .	1 25
<b>80.</b>	“ “ probe “ “ “ “ . . . . .	1 25



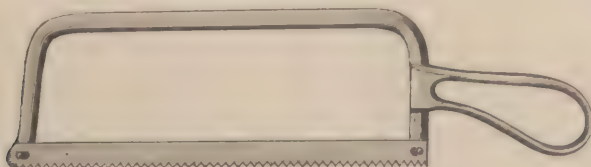
No. 102.

<b>81.</b>	Tenotome, sharp point, hollow metal handle, . . . . .	1 25
<b>82.</b>	“ blunt “ “ “ “ . . . . .	1 25
<b>83.</b>	“ concave, “ “ “ . . . . .	1 25
<b>84.</b>	“ convex, “ “ “ . . . . .	1 25
<b>85.</b>	Tenaculum, “ “ “ . . . . .	1 25
<b>86.</b>	Aneurism Needle, “ “ “ . . . . .	1 25
<b>87.</b>	Cooper's Hernia Knife, “ “ “ . . . . .	1 25
<b>88.</b>	Scalpel, large, ebony handle, . . . . .	75
<b>89.</b>	“ medium, “ “ . . . . .	75
<b>90.</b>	“ small, “ “ . . . . .	75
<b>91.</b>	Straight Bistoury, ebony handle, . . . . .	75
<b>92.</b>	Curved “ sharp point, ebony handle, . . . . .	75
<b>93.</b>	“ “ probe “ “ “ . . . . .	75
<b>94.</b>	Tenotome, sharp point, “ “ . . . . .	75

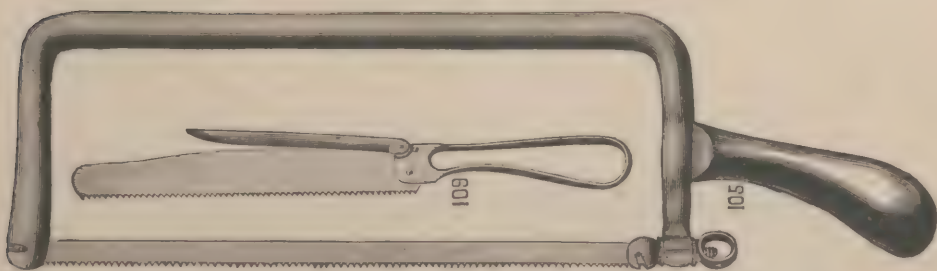
The boldface numbers represent instruments illustrated.

INSTRUMENTS FOR GENERAL AND MINOR  
OPERATIONS—Continued.

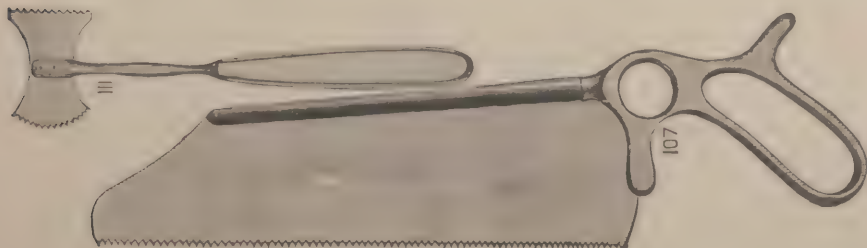
NO.		PRICE.
95.	Tenotome, blunt point, ebony handle, . . . . .	\$0 75
96.	“ concave, “ “ . . . . .	75
97.	“ convex, “ “ . . . . .	75
98.	Tenaculum, “ “ . . . . .	75
99.	Aneurism Needle, “ “ . . . . .	75
100.	Cooper's Hernia Knife, “ “ . . . . .	75
101.	Amputating Case, contains 1 Amputating Saw, 1 Metacarpal Saw, 1 Bone Forceps, 1 Medium Catling, 1 Medium Amputating Knife, 1 Amputating Scalpel, 1 Amputating Tenaculum, 1 Fen- estrated Artery Forceps, 1 Petit's Tourniquet, Needles, Silk, and Wire; instruments with ebony handles; in mahogany case, . .	20 00
102.	Amputating Case, contains same as Case No. 101; instruments with metal handles, . . . . .	22 50



No. 104.



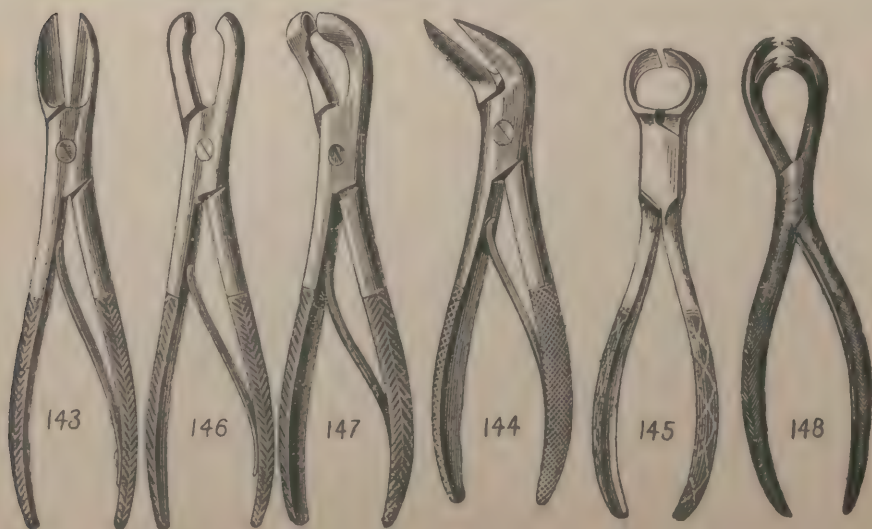
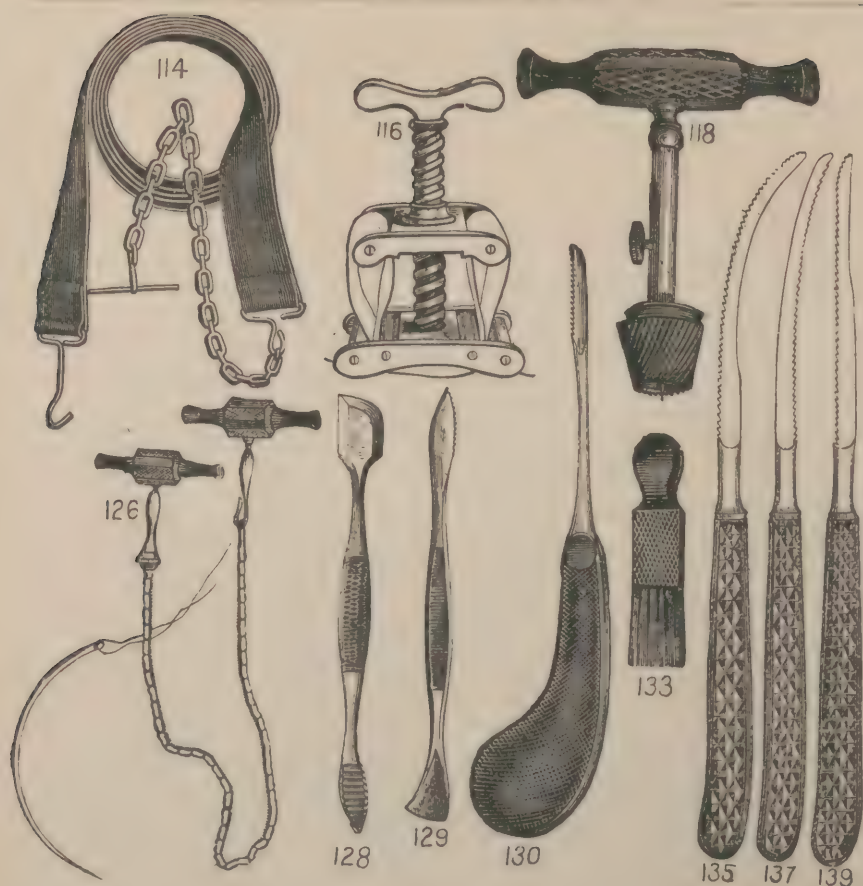
Nos. 105 and 109.



Nos. 107 and 111.

The boldface numbers represent instruments illustrated.

C. H. GOLDTHWAITE & CO.,

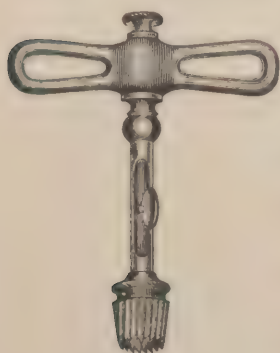




INSTRUMENTS FOR GENERAL AND MINOR  
OPERATIONS—Continued.

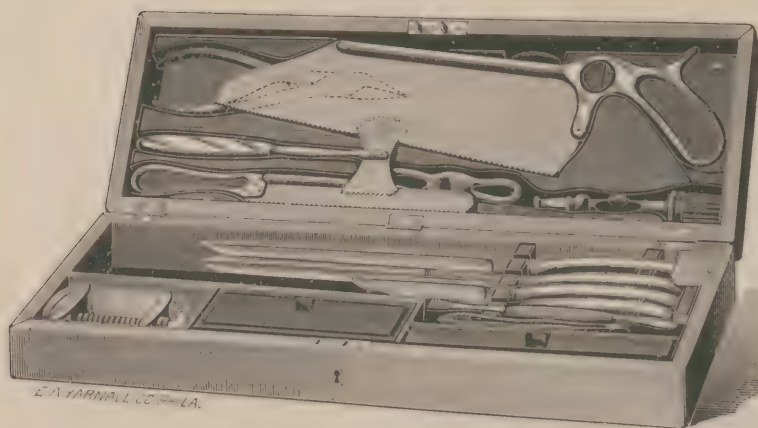
NO.		PRICE.
104.	Yarnall's Small Aseptic Bow Saw, . . . . .	\$2 50
105.	Bow Saw, with two blades, metal handle, . . . . .	5 00
106.	" " " " " ebony " . . . . .	4 75
107.	Satterlee's Saw, metal handle, . . . . .	3 50
109.	Metacarpal Saw, with movable back, metal handle, . . . . .	1 75
110.	" " " " " ebony " . . . . .	1 75
111.	Hey's Skull Saw, metal handle, . . . . .	1 75
112.	" " " " " ebony " . . . . .	1 50
113.	Conant's Set, consisting of Amputating Knife, Catling, and Saw in one handle, . . . . .	7 00
114.	Esmarch's Tourniquet, . . . . .	1 00
115.	" Rubber Bandage, . . . . .	1 00
116.	Petit's Tourniquet, . . . . .	1 50
116½.	Instantaneous Tourniquet, . . . . .	50
117.	Galt's Trepine, single, 5 sizes, metal handle, . . . . . each	3 00
118.	Galt's Trepine, single, 3 sizes, ebony handle, . . . . .	2 75
119.	Galt's Trepine, 2 sizes, in one metal handle, . . . . .	5 00
120.	Galt's Trepine, 2 sizes, in one ebony handle, . . . . .	4 75
121.	Roberts' Trepine, ½ inch, . . . . .	5 00
122.	" " ¾ " . . . . .	5 50
123.	" " 1 " . . . . .	6 00
124.	" " 1¼ " . . . . .	6 50
125.	" " 1½ " . . . . .	7 00
126.	Chain Saw, ebony adjustable handle, . . . . .	5 50
127.	" " metal " " . . . . .	6 00
128.	Trepanning Elevator and Raspatory, . . . . .	1 00
129.	" " . . . . .	65
130.	Adams' Subcutaneous Saw, ebony handle, . . . . .	2 00
131.	" " Knife, " " . . . . .	1 25
132.	" " " metal " . . . . .	1 40
133.	Trepanning Brush, ebony handle, . . . . .	40
134.	" " aluminum, . . . . .	60
135.	Metacarpal Saw, convex, ebony handle, . . . . .	1 50
136.	" " " metal " . . . . .	1 50
137.	" " concave, ebony " . . . . .	1 50
138.	" " " metal " . . . . .	1 50
139.	" " straight, ebony " . . . . .	1 50
140.	" " " metal " . . . . .	1 50

The boldface numbers represent instruments illustrated.



No. 117.

**C. H. GOLDTHWAITE & CO.,**  
**AMPUTATING AND TREPPANNING.**



**No. 142.**

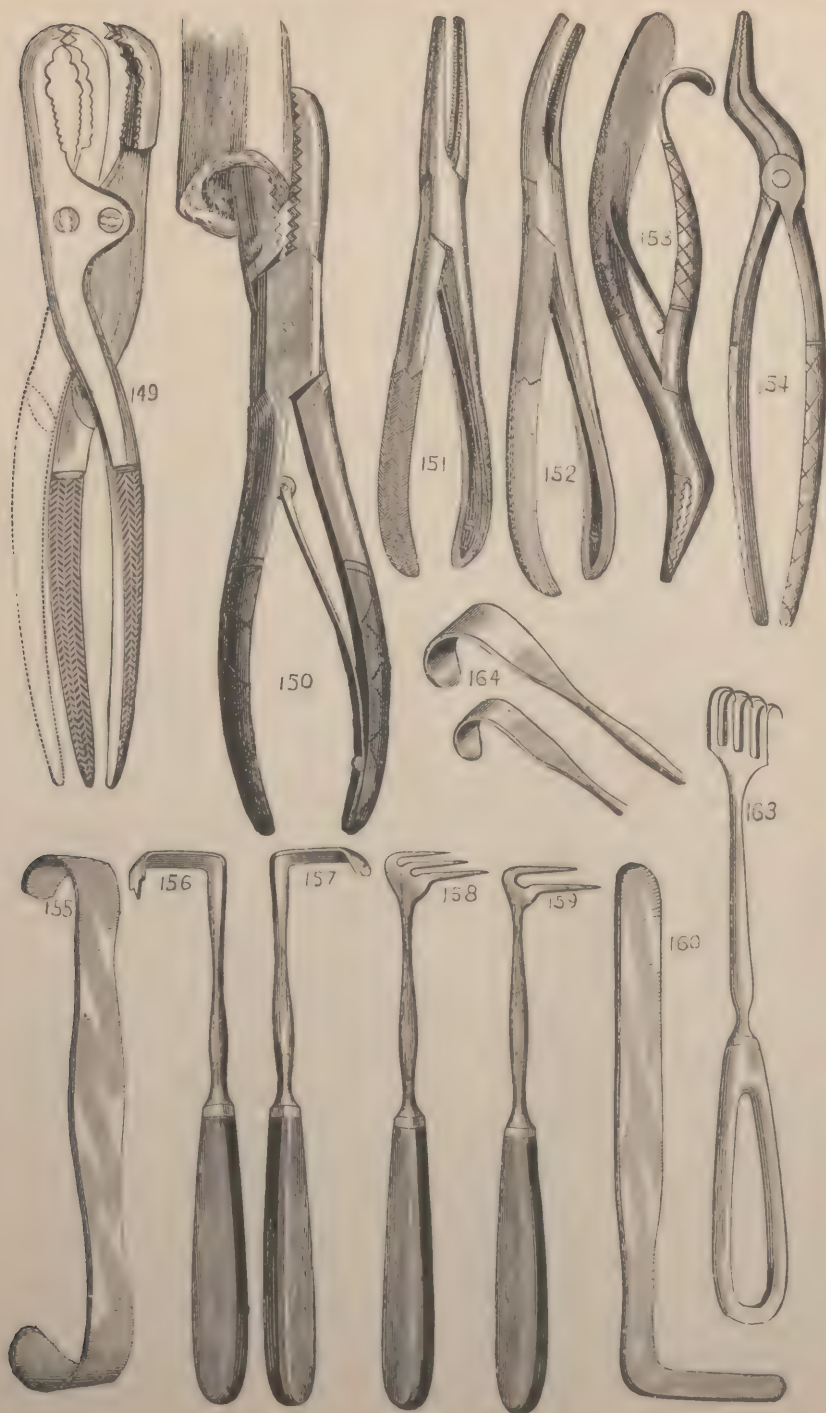
NO.		PRICE
<b>141.</b>	Amputating and Trepanning Case, contains 1 Amputating Saw, 1 Metacarpal Saw, 1 Hey's Saw, 1 Medium Amputating Knife, 1 Medium Catling, 1 Amputating Scalpel, 1 Tenaculum, 1 Bone Forceps, 3 Hamostatic Forceps, 1 Trepphine, 1 Elevator, 1 Brush, 1 Petit's Tourniquet, Needles and Silk; instruments with ebony handles; in mahogany case, . . . . .	\$25 00
<b>142.</b>	Amputating and Trepanning Case, contains same as Case No. 141; instruments with metal handles, . . . . .	30 00
<b>143.</b>	Bone Forceps, Liston's, straight, . . . . .	2 10
<b>144.</b>	“ “ “ curved, . . . . .	2 50



**No. 147 1/2.**

<b>144 1/2.</b>	Spinal Rongeur Forceps, Hopkins', . . . . .	3 25
<b>145.</b>	Bone Forceps, Satterlee's, straight or angular, . . . . .	2 50
<b>145 1/2.</b>	Rongeur Forceps, Keen's, for linear craniectomy, . . . . .	3 25
<b>146.</b>	Bone-Gnawing Forceps, straight, . . . . .	2 50
<b>147.</b>	“ “ “ curved, . . . . .	2 50
<b>147 1/2.</b>	Trepanning Rongeur Forceps, Hopkins', . . . . .	3 00

The boldface numbers represent instruments illustrated.





# C. H. GOLDTHWAITE & CO.,

## AMPUTATING AND TREPANNING—Continued.

NO.		PRICE.
148.	Bone-Holding Forceps, Ferguson's, lion jaw, . . . . .	\$2 50
149.	" " " Farabœuf's, . . . . .	5 00
150.	" " " Hamilton's, . . . . .	3 00
151.	Sequestrum " Gross', straight, . . . . .	2 00
152.	" " " " curved, . . . . .	2 00
153.	" " " Hamilton's, . . . . .	2 00
154.	" " " Van Buren's, . . . . .	2 00
155.	Retractors, Parker's, 2 sizes, . . . . . per pair	1 10
156.	Langenbeck's Sharp Retractor, . . . . .	1 75
157.	" Blunt " . . . . .	1 75
158.	Bilroth's Three-pronged Retractor, . . . . .	2 00
159.	" Two-pronged " . . . . .	1 75
160.	Mott's " 2 sizes, . . . . . per pair	1 10
161.	Volkman's Two-pronged " . . . . .	1 50
162.	" Three-pronged " . . . . .	1 75
163.	" Four-pronged " . . . . .	2 00
164.	Green's " 2 sizes, . . . . . per pair	2 00
165.	Bone Drills, Hamilton's, . . . . . " set	5 00
166.	" " Brainard's, set of 5, . . . . .	2 75
167.	Lenticular Knife, . . . . .	1 50
168.	Bone Chisel, all steel, . . . . .	1 25
169.	" Gouge, " . . . . .	1 25
170.	Periosteotome, Legoust's, . . . . .	1 75
171.	Bone Gouge, Symanowsky's, . . . . .	2 00
172.	Volkman's Bone Spoon, . . . . .	1 25
172½.	" " " double, . . . . .	1 75
173.	Hebra's Bone Scoop, . . . . .	1 75
174.	Lenticular, . . . . .	1 25
175.	" and Elevator, . . . . .	1 50
176.	Periosteotome, Sayre's, . . . . .	1 50
177.	" Sands', . . . . .	1 75
178.	Esmarch's Bone Knife, . . . . .	1 25
179.	Darby's Set of Osteotomes, . . . . .	5 00
180.	Lead Mallet, non-rebounding, . . . . .	1 75
180½.	Mallet, rawhide, . . . . .	75
181.	Bone Burr, Marshall's, . . . . .	1 75
182.	Minor Operating Case, contains 1 Large Scalpel, 1 Medium Scalpel, 1 Small Scalpel, 1 Curved Bistoury with sharp point, 1 Curved Bistoury with probe point, 1 Cooper's Hernia Knife, 1 Finger Knife, 1 Tenotome, 1 Tenaculum, 1 Aneurism Needle, 1 Metacarpal Saw, 1 Straight Scissors, 1 Dressing Forceps, 1 Spring Forceps, 1 Fenestrated Artery Forceps, 1 Grooved Director, Needles, Silk, etc.: instruments with ebony handles: in mahogany case, 17 00	

The boldface numbers represent instruments illustrated.



## AMPUTATING AND TREPANNING—Continued.

- NO. **183.** Minor Operating Case, contains 1 Metacarpal Saw, 1 Amputating Knife, 1 Large Scalpel, 1 Small Scalpel, 1 Straight Bistoury, 1 Curved Sharp Point Bistoury, 1 Curved Probe Point Bistoury, 1 Aneurism Needle, 1 Tenaculum, 1 Spring Forceps, 1 Grooved Director, 1 Bone Forceps, 2 Pean's Artery Forceps, 1 Straight Scissors, 1 Scissors curved on flat, 1 Esmarch's Tourniquet, 2 Probes, 1 Nelaton's Probe, 1 Needle Holder, half dozen Needles, 3 sizes Silk, 1 Coil Silver Wire, 1 Bottle Catgut; with movable metal rack, . . . . . \$25 00

**No. 183.**

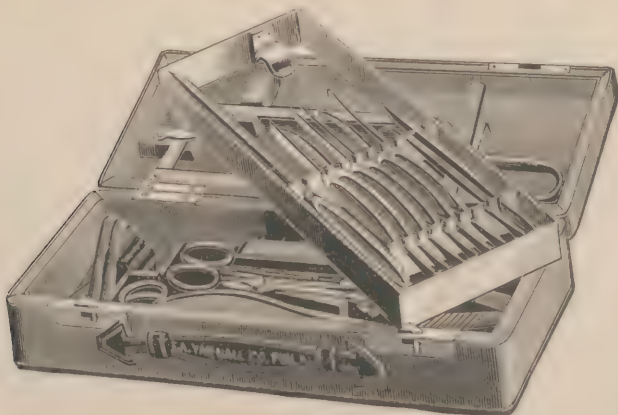
- 184.** Minor Operating Case, contains 1 Amputating Knife, 1 Finger Knife, 1 Hernia Knife, 1 Sharp-Curved Bistoury, 2 Scalpels, 1 Tenotome, 1 Tenaculum, 1 Curved Scissors, 1 Finger Saw, 1 Saw, 9-inch blade; 1 Liston's Bone Forceps, 1 Artery and Needle Forceps combined, 1 Dressing Forceps, 1 Esmarch's Flat Rubber Tourniquet with Chain, 1 Director with Aneurism Needle, 1 pair Probes, 1 Tablet Silk, four sizes, in Slip Case; 1 Coil Silver Wire, half dozen assorted Needles; instruments with ebony handles and in a fine case lined with silk velvet or leather, . . . . 22 50
- 185.** Aseptic Minor Operating Case, contains 1 Varnall's Small Aseptic Bow Saw, 1 Bone Forceps, angular or straight; 1 Needle Holder, 1 Scissors, 5 in., French lock, curved on flat; 2 Hæmastatic Forceps, 1 Small Amputating Knife or Catling with hollow metal handle, 1 Scalpel, 1 Straight Bistoury or Finger Knife, 1 Curved Sharp Bistoury, 1 Curved Probe Bistoury, 1 Tenatome and 1 Tenaculum (the minor operating instruments all have hollow metal handles); 1 Aneurism Needle and Grooved Director, 1 Aseptic Spring Forceps, 5 in.; 1 "Instantaneous" Tourniquet, Needles and Silk; in a morocco-covered, kid-lined case, with a movable rack made of aluminum which holds the cutting instruments, . . . 22 50

The boldface numbers represent instruments illustrated.



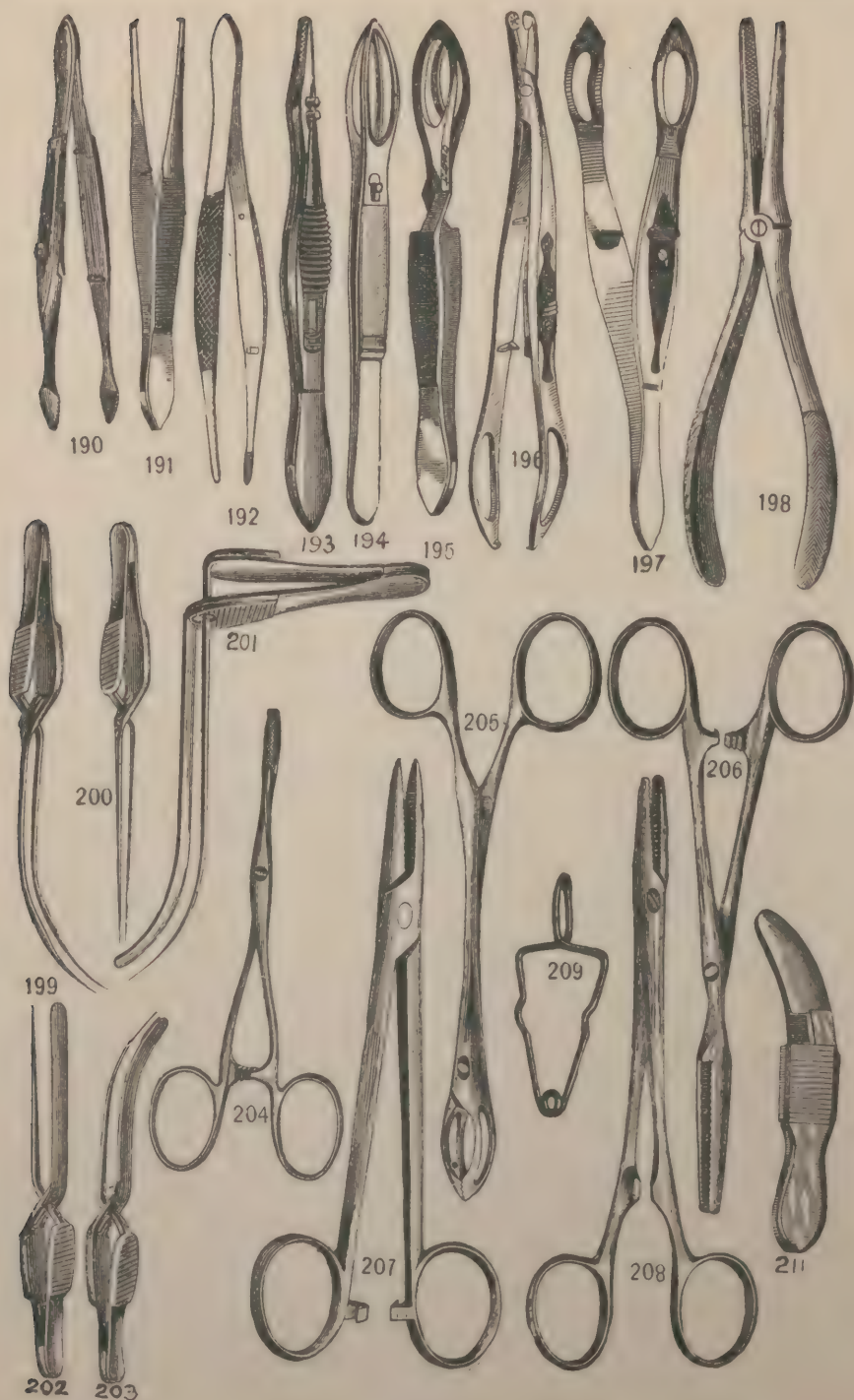
**AMPUTATING AND TREPANNING—Continued.**

NO.		PRICE.
186.	Same as No. 185, with the following additions: 1 Galt's Metal Handle Aseptic Trepine, 1 Trepine Elevator, and 1 Aluminum Handle Trepine Brush; these cases are furnished with a neat handle, as shown in illustration of Case 185, . . . . .	\$27 00

**No. 185.**

188.	Minor Operating Case, contains 1 Scalpel with Raspatory, 1 Large Scalpel, 1 Medium Scalpel, 1 Small Scalpel, 1 Straight Bistoury, 1 Curved Bistoury with sharp point, 1 Curved Bistoury with probe point, 1 Tenotome, sharp point; 1 Tenotome, probe point; 1 Cooper's Hernia Knife, 1 Finger Knife, 1 Tenaculum, 1 Aneurism Needle, 1 Grooved Director, 1 Artery Forceps (Fenestrated), 1 Spring Forceps, 1 Sequester Forceps, 1 Bone Forceps, 1 Pin-cutting Forceps, 1 Volsellum Forceps, 1 Polypus Forceps, 1 Straight Scissors, 1 Curved Scissors, 1 Metacarpal Saw, 1 pair Retractors, Needles, Silk, and Wire; instruments with ebony handles; in rosewood brass-bound case, . . . . .	32 00
189.	Minor Operating Case, contains same as Case No. 188; instruments with metal handles, . . . . .	35 00
190.	Andrews' Artery Forceps, . . . . .	2 00
191.	Rat Tooth " " . . . . .	1 00
192.	Plain Spring " " . . . . .	75
193.	Hunter's Artery " " . . . . .	2 00
194.	Fenestrated Artery Forceps, spring catch, . . . . .	1 50
195.	" " " cross action, . . . . .	1 50
196.	" " " and Needle Holder, . . . . .	2 00
197.	" " " slide catch, . . . . .	1 75
198.	Gross' " " . . . . .	1 75
199.	Allis' " " . . . . .	1 00

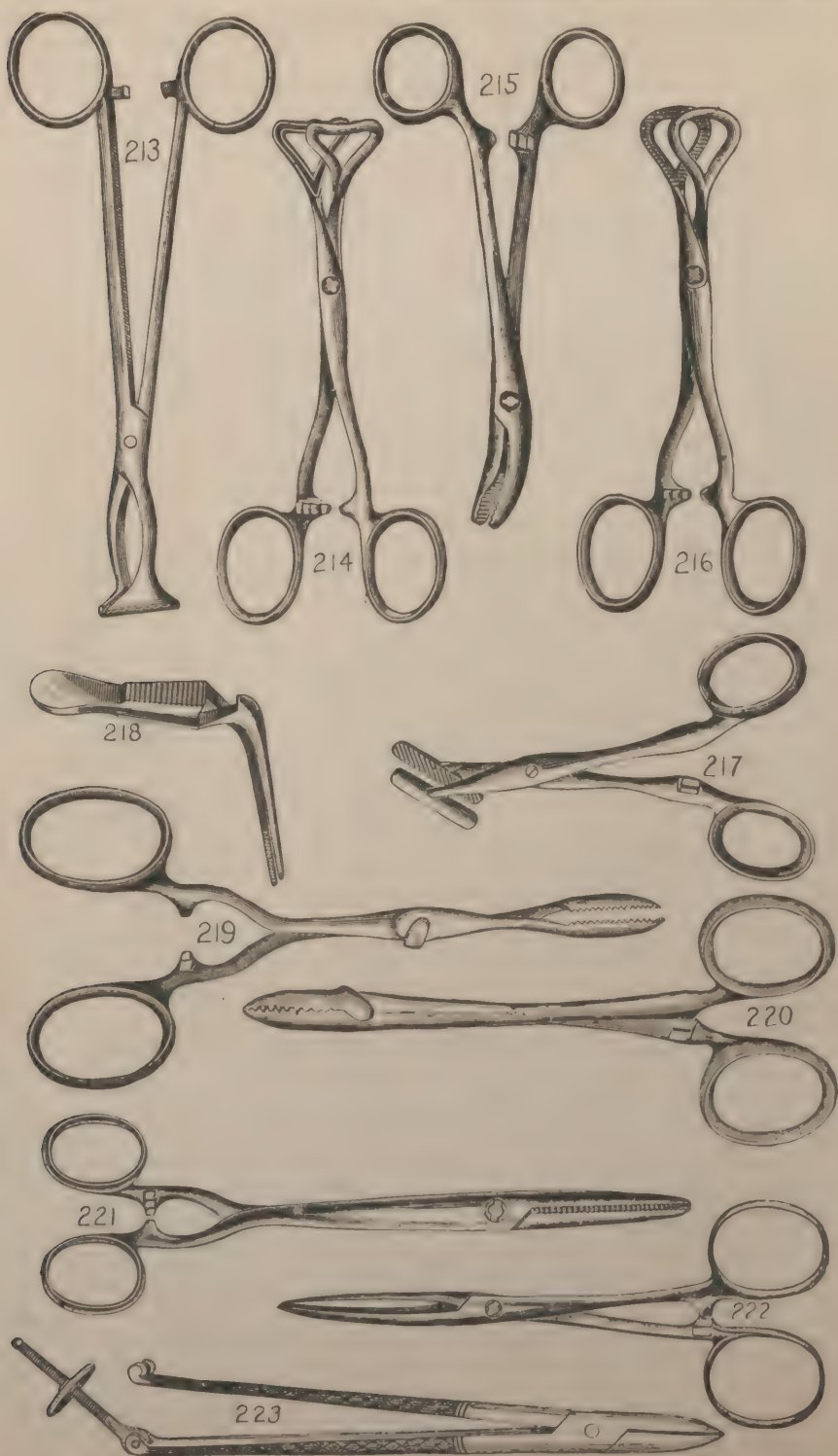
The boldface numbers represent instruments illustrated.



**AMPUTATING AND TREPANNING—Continued.**

NO.		PRICE.
200.	Allis' Artery Forceps, . . . . .	\$1 00
201.	" " " . . . . .	1 25
202.	" " " . . . . .	75
203.	" " " . . . . .	75
204.	Pean's " " . . . . .	85
205.	Little's " " . . . . .	1 75
206.	Wyeth's " " . . . . .	1 75
207.	Sabine's " " . . . . .	1 50
208.	Tait's " " " . . . . .	1 00
209.	Serrefines, straight or curved, . . . . .	20
211.	Artery Forceps, Langenbeck's, curved or straight, . . . . .	50
213.	Pratt's T Artery Forceps, . . . . .	2 50
214.	Pean's Triangular Loop Artery Forceps, . . . . .	2 50
215.	Tait's Curved " " . . . . .	1 15
216.	Pean's Oval Loop " " . . . . .	2 50
217.	" T " " . . . . .	2 25
218.	Milne's " " . . . . .	1 00
219.	Pean's Artery Forceps, Collins' Lock, . . . . .	1 25
220.	Tait's " " " " . . . . .	1 50
221.	Ethridge's Artery " French " . . . . .	1 25
222.	Smith's Artery Forceps, straight, . . . . .	2 00
223.	Nott's " Clamp Forceps, . . . . .	4 50
224.	General Operating Case, contains 1 Amputating Saw, 1 Metacarpal Saw, 1 Hey's Saw, 1 Medium Amputating Knife, 1 Medium Catling, 1 Scalpel with Raspatory, 1 Medium Scalpel, 1 Curved Bistoury with sharp point, 1 Curved Bistoury with probe point, 1 Straight Bistoury, 1 Tenotome, 1 Tenaculum, 1 Aneurism Needle, 1 Grooved Director, 1 Bone Forceps, 1 Sequestrum Forceps, 1 Volsellum Forceps, 1 Polypus Forceps, 1 Spring Forceps, 1 Fenestrated Artery Forceps, 1 Straight Scissors, 1 Curved Scissors, 1 Trephine, 1 Brush, 1 Elevator, 1 Petit's Tourniquet, Needles, Silk, and Wire; instruments with ebony handles; in mahogany case, . . . . .	37 00
225.	Aseptic General Operating Case, contains 1 Satterlee's Saw, 1 Metacarpal Saw, 1 Small Amputating Knife, 1 Medium Catling, 1 Curved Bistoury, sharp point; 1 Curved Bistoury, probe point; 1 Tenotome, 1 Large Scalpel, 1 Small Scalpel, 1 Tenaculum, 1 Aneurism Needle, 1 Spring Forceps, 5 inch; 1 Reiner's Needle Holder, 3 Pean's Artery Forceps, 1 Bone Forceps, plain joint; 1 Straight Scissors, 5 inch; 1 Scissors, curved on flat, 5 inch; 1 Grooved Director, 1 Trephine, 1 Elevator, 1 Trepanning Brush, 1 Esmarch's Tourniquet, 1 Hey's Saw, 1 Nelaton's Bullet Probe, 2 Probes, Needles, Silk, Wire, and Catgut; rosewood case, with movable metal rack; operating knives have hollow metal handles, . . . . .	48 00

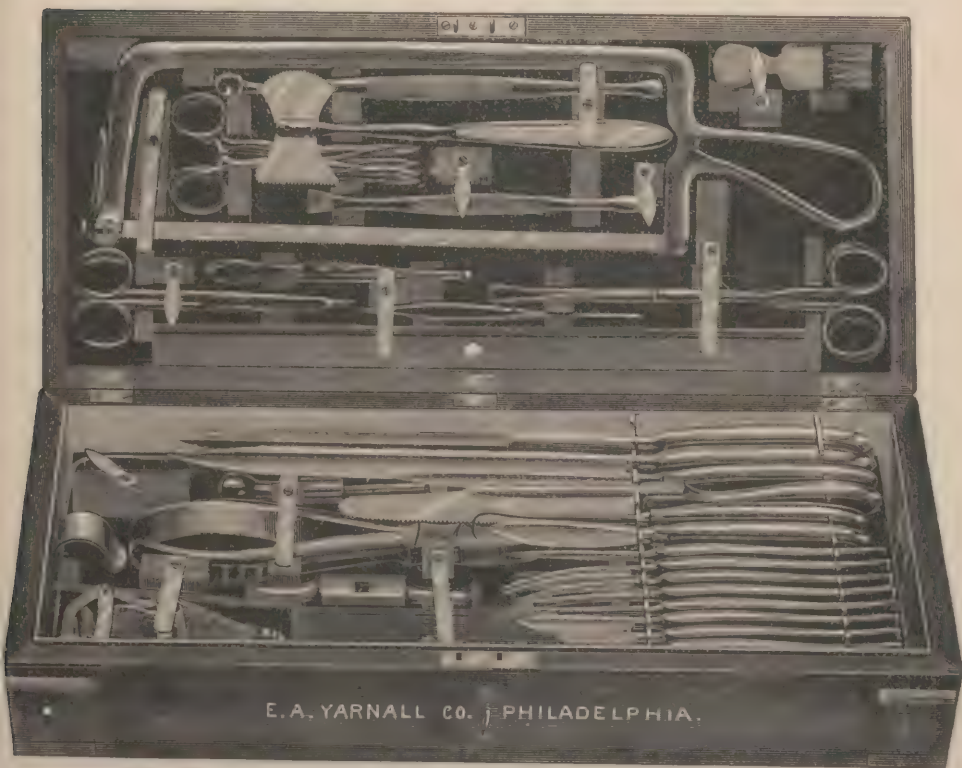
The boldface numbers represent instruments illustrated.





**AMPUTATING AND TREPPANNING—Continued.**

- NO. **226.** General Operating Case (Gross's), contains 1 Bow Saw, 2 blades; 1 Metacarpal Saw, 1 Hey's Saw, 1 Amputating Knife, medium; 1 Catling, medium; 1 Straight Bistoury, 1 Curved Bistoury, sharp; 1 Curved Bistoury, probe; 1 Tenotome, 1 Tenaculum, 1 Scalpel with Raspatory, 1 Medium Scalpel, 1 Small Scalpel, 1 Cooper's Hernia Knife, 1 Aneurism Needle, 3 Pean's Artery Forceps, 1 Spring Forceps, 1 Bone Forceps, 1 Sequestrum Forceps, 1 Pin-cutting Forceps, 1 Volsellum Forceps, 1 Needle Forceps, 1 Bullet
- PRICE.

**No. 228**

Forceps, 1 Curved Scissors, 1 Straight Scissors, 1 pair Trephines, 1 pair Retractors, 1 Brush, 1 Grooved Director, 1 Elevator, 1 Bullet Probe, 1 Trocar and Canula, 1 Petit's Tourniquet, Needles, Silk, and Wire; instruments with ebony-handles; in rosewood brass-bound case, . . . . . \$50 00

- 227.** General Operating Case (Gross's), contains same as Case No. 226; instruments with metal handles, . . . . . 55 00

The boldface numbers represent instruments illustrated.

## AMPUTATING AND TREPANNING—Continued.

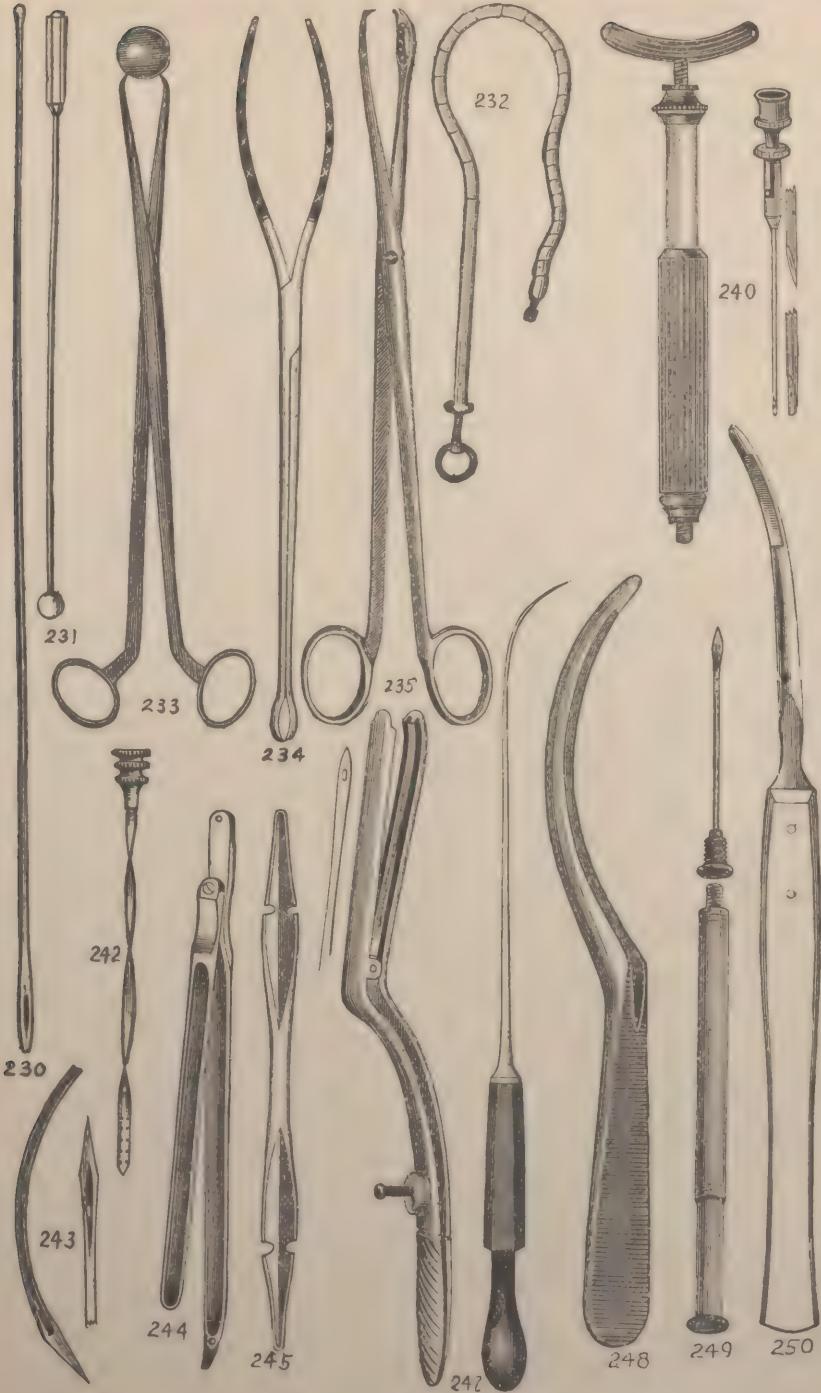
NO.		PRICE.
<b>228.</b>	Aseptic General Operating Case, contains 1 Bow Saw, 1 Medium Amputating Knife, 1 Medium Catling, 1 French Finger Knife, 1 Metacarpal Saw, 1 Hey's Saw, 1 Amputating Scalpel, 1 Amputating Tenaculum, 1 Straight Bistoury, 2 Curved Bistouries, 1 Tenotome, 2 Scalpels, 1 Aneurism Needle, 1 Cooper's Hernia Knife, 1 pair Retractors, 1 Bone Forceps, 1 Sequestrum Forceps, 1 Pin-cutting Forceps, 6 Pean's Artery Forceps, 1 Reiner's Needle Holder, 1 Volsellum Forceps, 1 Spring Forceps, 1 Straight Scissors, 1 Curved Scissors, 1 Volkman's Double Spoon, 1 Petit's Tourniquet, 1 Trepine, 1 Brush, 1 Elevator, 1 Trocar, 1 Director, 1 Bullet Probe, 2 Probes; instruments with hollow metal handles, in a brass-bound, rosewood case, with movable metal rack; Needles, Silk, Catgut, and Silver Wire, . . . . .	\$70 00



No. 237.

<b>230.</b>	Long Silver Bullet Probe, . . . . .	1 00
<b>231.</b>	Nelaton's " " . . . . .	50
<b>232.</b>	Sayre's Vertebrated Bullet Probe, . . . . .	5 00
<b>233.</b>	American Bullet Forceps, . . . . .	1 50
<b>234.</b>	U. S. A. " " . . . . .	1 50
<b>235.</b>	Gross' " " . . . . .	1 75
<b>236.</b>	Brinton's " " . . . . .	2 60

The boldface numbers represent instruments illustrated.



C. H. GOLDTHWAITE & CO.,

**VAN LENNEP EMERGENCY BAG.**

[illegible]

CONTENTS OF BAG MAY BE ARRANGED TO SUIT PURCHASER.

## HERNIA INSTRUMENTS.

<b>240.</b>	De Garmo's	Hernia Syringe,	. . . . .	4	50
<b>241.</b>	Warren's	" "	. . . . .	8	00
<b>242.</b>	"	" Needle,	. . . . .	1	50
<b>243.</b>	Dowell's	" "	. . . . .	75	
<b>244.</b>	Grooved Director,	double,	. . . . .	1	25
<b>245.</b>	Levis' Hernia Director,		. . . . .	75	
<b>246.</b>	Peters' "	"	. . . . .	1	25
<b>247.</b>	Agnew's "	Instruments,	. . . . .	4	50
<b>248.</b>	Curved "	Director,	. . . . .	1	00
<b>249.</b>	Heaton's "	Syringe,	. . . . .	2	00
<b>250.</b>	Cooper's "	Knife, ebony handle,	. . . . .	75	

## POCKET INSTRUMENTS.

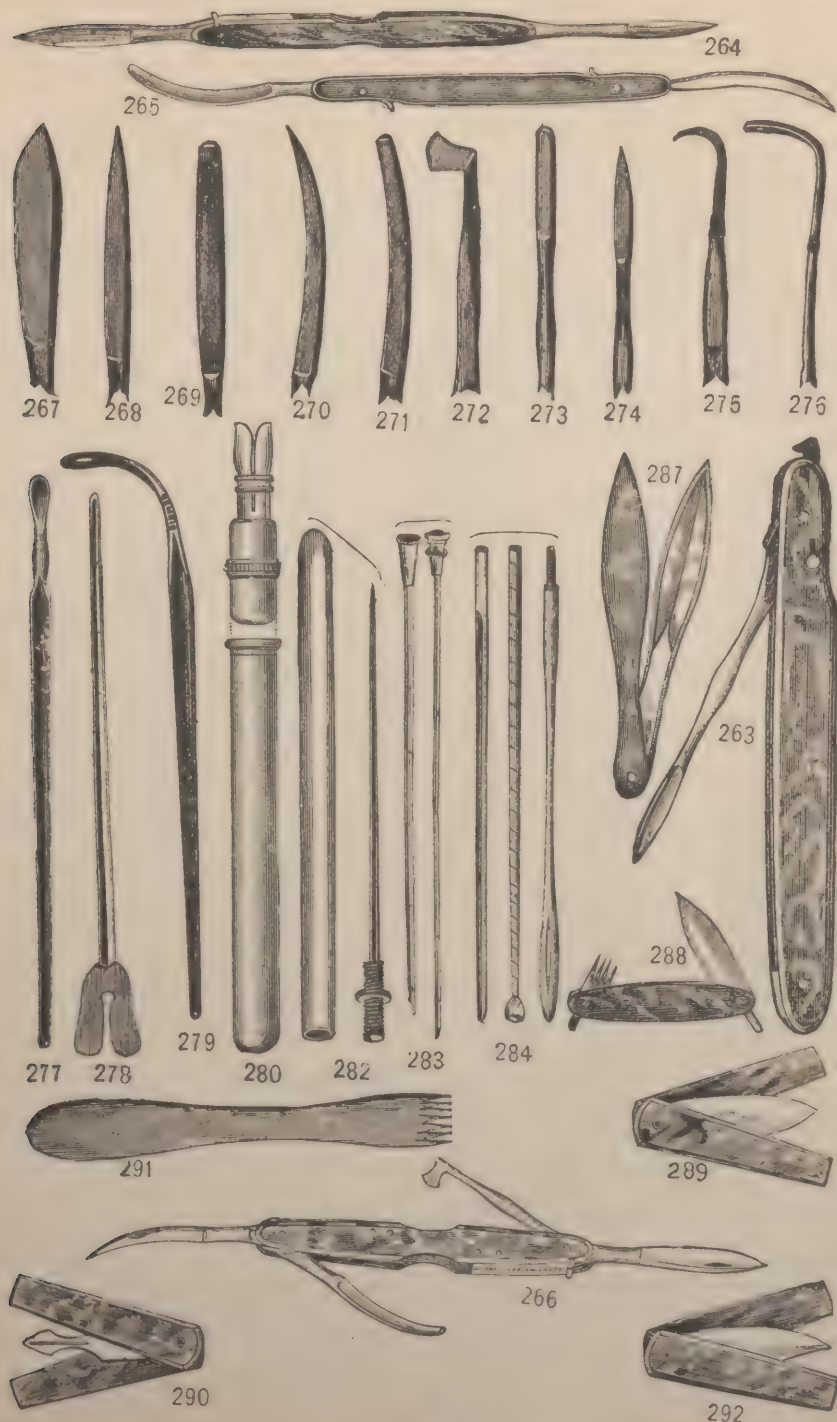
260.	1	Blade Pocket Instrument, without catch,	rubber,	. . . . .	50
261.	1	" " " "	shell,	. . . . .	75
262.	1	" " " "	spring catch,	. . . . .	1 25
263.	1	" " " "	slide "	. . . . .	1 25
264.	2	" " " "	spring "	. . . . .	2 00
265.	2	" " " "	slide "	. . . . .	1 75
266.	4	" " " "	spring "	. . . . .	4 00

These pocket instruments are furnished with any of the following blades, and with either aluminum or tortoise-shell handles:—

267. Scalpel.  
268. Straight Bistoury, sharp point.  
269. " " probe "  
270. Curved " sharp "  
271. " " probe "

The boldface numbers represent instruments illustrated.



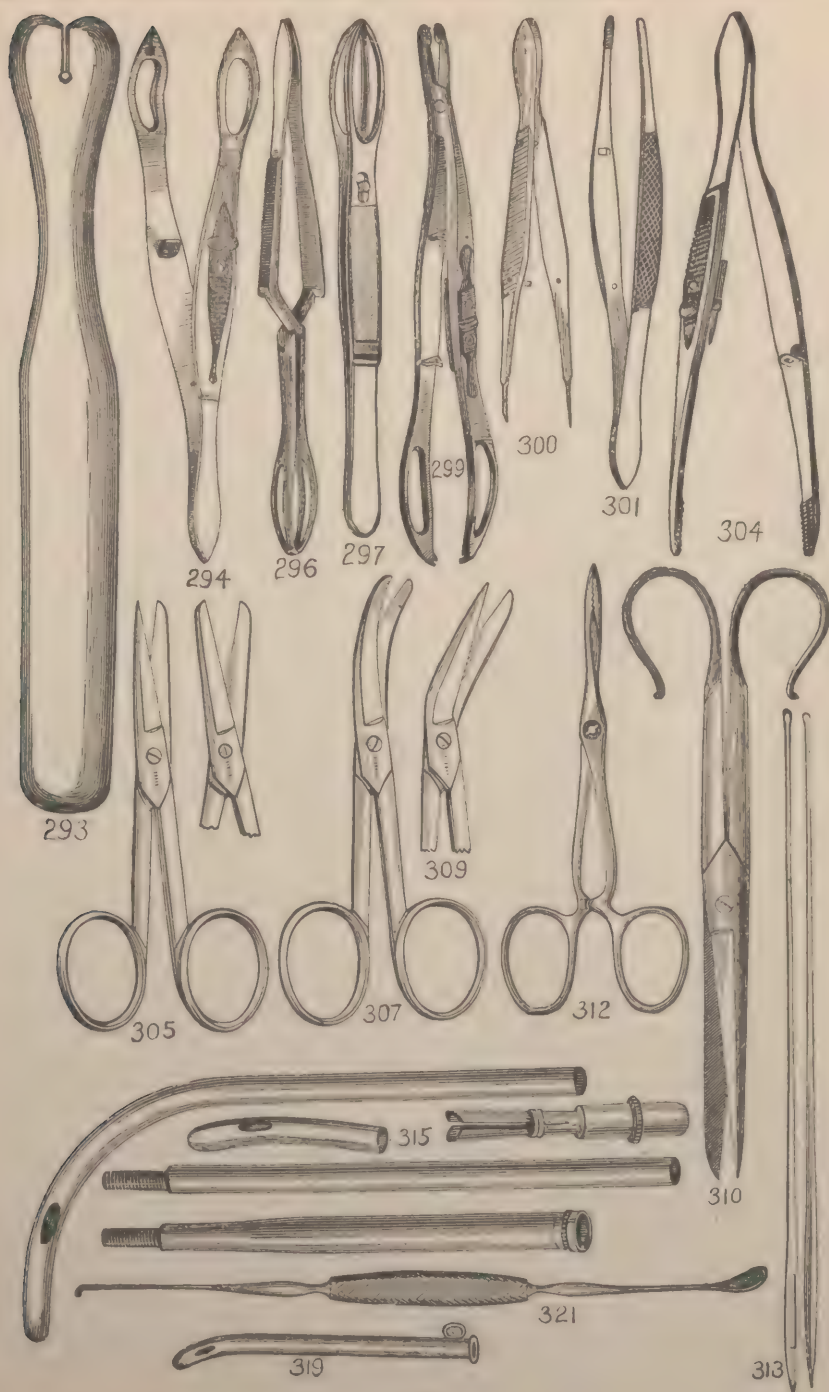


# C. H. GOLDTHWAITE & CO.,

## POCKET INSTRUMENTS—Continued.


NO.		PRICE.
272.	Gum Lancet.	
273.	Tenotome, probe point.	
274.	“ sharp “	
275.	Tenaculum.	
276.	Aneurism Needle.	
277.	Spoon Director, . . . . .	\$0 50
278.	Director with Tongue-tie, . . . . .	50
279.	“ and Aneurism Needle, . . . . .	50
280.	Caustic Holder, rubber, 4 inches, . . . . .	40
281.	“ “ “ 5 “ . . . . .	50
282.	Exploring Needle, metal, . . . . .	40
283.	“ Trocar and Canula, . . . . .	90
284.	Hamilton's Set of Probes and Director, . . . . .	1 00
285.	Exploring Needle, rubber, . . . . .	50
287.	Seaton Needle, . . . . .	1 00
288.	Vaccine Lancet with Comb, . . . . .	75
289.	Thumb Lancet, . . . . .	50
290.	Vaccine Lancet, . . . . .	50
291.	Scarifier for Vaccinating, . . . . .	25
292.	Abscess Lancet, . . . . .	60
293.	Spatula and Tongue-tie, . . . . .	50
294.	Fenestrated Slide-catch Artery Forceps, 4 inches, . . . . .	1 75
295.	“ “ “ “ 4½ “ . . . . .	1 85
296.	“ Artery Forceps, back action, 4½ inches, . . . . .	1 50
297.	“ “ “ spring-catch, 4 “ . . . . .	1 50
298.	“ “ “ “ 4½ “ . . . . .	1 50
299.	“ “ “ with needle-holder, 4½ inches, . . . . .	2 00
300.	Splinter Forceps, . . . . .	60
301.	Plain Spring Forceps, 4 inches, . . . . .	60
302.	“ “ “ 4½ “ . . . . .	65
303.	Slide-catch Artery Forceps, 4 inches, . . . . .	1 75
304.	“ “ “ 4½ “ . . . . .	1 75
305.	Scissors, straight, 4 inches, . . . . .	60
306.	“ “ 4½ “ 70 cts.; 5 inches, . . . . .	85
307.	“ curved on flat, 4 inches, . . . . .	75
308.	“ “ “ 4½ “ 85 cts.; 5 inches, . . . . .	1 00
309.	“ angular, 4½ “ 85 cts.; 5 “ . . . . .	1 00
310.	“ open bows, 4 “ . . . . .	65
311.	“ “ “ 4½ “ . . . . .	75
312.	Pean's Artery Forceps, . . . . .	85

The boldface numbers represent instruments illustrated.



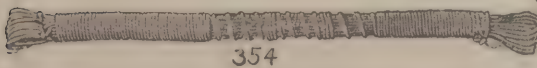
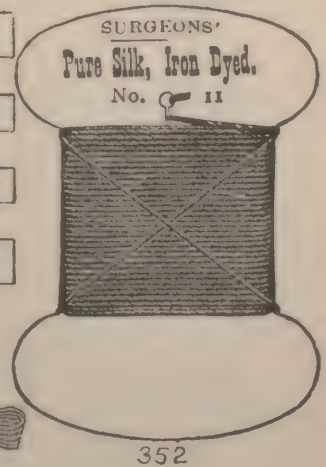
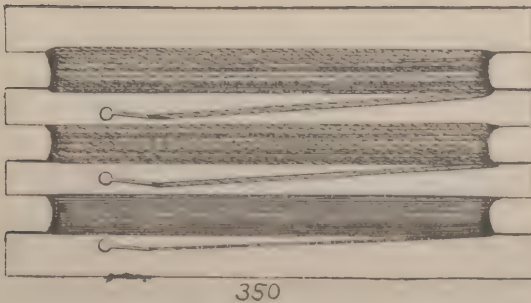
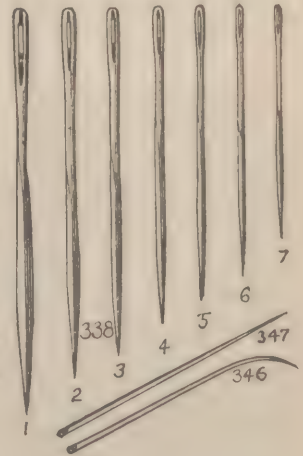
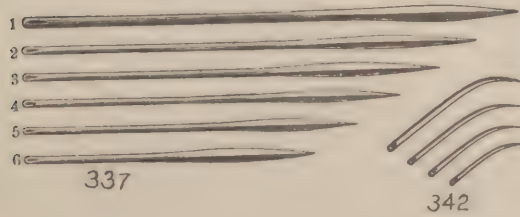
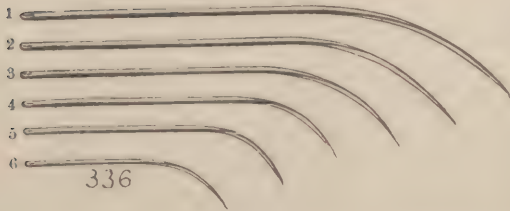
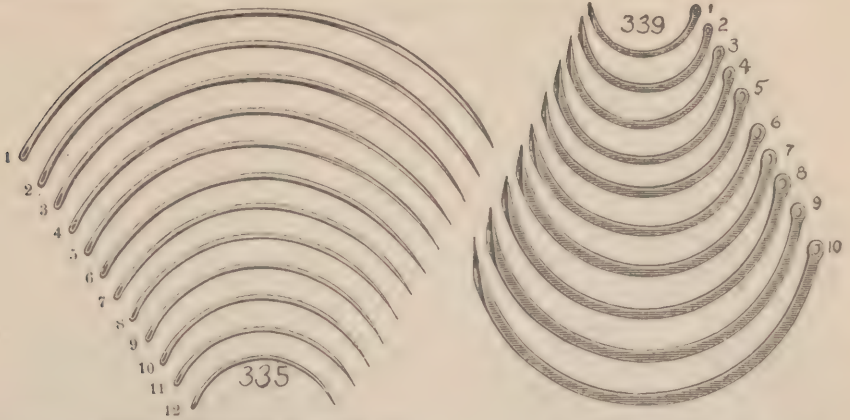
# C. H. GOLDTHWAITE & CO.,

## POCKET INSTRUMENTS—Continued.

NO.		PRICE.
<b>313.</b>	Probes, plated, . . . . . per pair,	\$o 25
<b>314.</b>	“ silver, . . . . . “	75
<b>315.</b>	Combined Catheter, plated, with silver caustic holder, . . . . .	I 75
<b>316.</b>	“ “ all silver, with “ “ . . . . .	3 00
<b>317.</b>	“ Male and Female Catheter, plated, . . . . .	I 00
<b>318.</b>	“ “ “ “ silver, . . . . .	2 00
<b>319.</b>	Female Catheter, plated, . . . . .	35
<b>320.</b>	“ “ silver, . . . . .	60
<b>321.</b>	Gross' Ear Instrument, . . . . .	60
	<b>325.</b> Little's Aseptic Scalpel, . . . . .	75
	<b>326.</b> “ “ Bistoury, straight, . . . . .	75
	<b>327.</b> “ “ “ curved, sharp, . . . . .	75
	<b>328.</b> “ “ “ “ probe, . . . . .	75
	<b>329.</b> “ “ Tenaculum, . . . . .	75
	<b>330.</b> “ “ Tenotome, . . . . .	75
	<b>331.</b> “ “ Aneurism Needle, . . . . .	75
	<b>332.</b> “ “ Gum Lancet, . . . . .	75
	<b>333.</b> “ Hernia Knife, . . . . .	75
	<b>335.</b> Full Curved Needles, . . . per dozen,	60
	<b>336.</b> Half “ “ . . . . .	60
	<b>337.</b> Straight “ flat, . . . . .	60
	<b>338.</b> Straight Needles, triangular points, . . . . .	60
	<b>339.</b> Hagedorn Needles, full curved, . . . . .	75
<b>340.</b>	“ “ half “ . . . . .	75
<b>341.</b>	“ “ straight, . . . . .	75
<b>342.</b>	Sims' “ half curved, . . . . .	85
<b>343.</b>	“ “ full “ . . . . .	85
<b>344.</b>	“ “ straight, . . . . .	85
<b>345.</b>	Emmett's “ full curved, . . . . .	85
<b>346.</b>	“ “ half “ . . . . .	85
<b>347.</b>	“ “ straight, . . . . .	85
<b>348.</b>	“ “ “ trocar point, . . . . .	I 00
<b>350.</b>	White Silk, 3 sizes on reel, . . . . . per reel,	25
<b>351.</b>	Black “ 3 “ “ . . . . .	25
<b>352.</b>	Iron-dyed Silk, 14 sizes, . . . . . per card,	10
<b>353.</b>	White “ 14 “ . . . . .	10
<b>354.</b>	Surgeons' Cable Twist, . . . . .	20
<b>355.</b>	Iron-dyed Braided Silk, 14 sizes, . . . . . per reel,	25
<b>356.</b>	White “ “ 14 “ . . . . .	20
<b>357.</b>	Cable Twist, Braided, 6 sizes, . . . . . per skein,	30

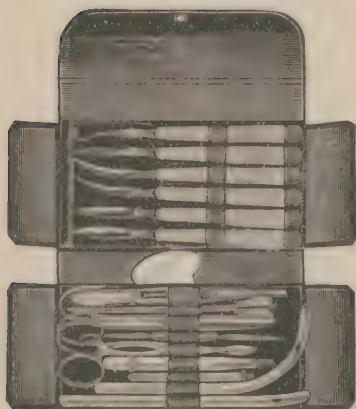
The boldface numbers represent instruments illustrated.





POCKET INSTRUMENTS—Continued.

PRICE.



No. 360.

- 360.** Aseptic Pocket Case, contains 1 Scalpel, 1 Straight Bistoury, 1 Curved Bistoury with sharp point, 1 Curved Bistoury with probe point, 1 Tenotome, 1 Tenaculum (numbers 325 to 330), 1 Slide Catch Artery and Needle Forceps, 1 Flat Director, 1 pair Probes, 1 Pean's Artery Forceps, 1 Gross' Ear Instrument, 1 Straight Scissors, 1 Exploring Needle, 1 Combined Male and Female Catheter and Porte Caustic, Needles and Silk; in leather-lined case, . . \$13 00



No. 361.

- 361.** Gross' Pocket Case, contains 1 Scalpel and 1 Straight Bistoury, 2 Curved Bistouries, probe and sharp pointed; 1 Tenotome and Tenaculum, 1 Pean's Artery Forceps, 1 Slide Catch Artery and Needle Forceps, 1 Scissors, 1 Spring Forceps, 1 Gross' Ear Instrument, 1 pair Probes, 1 Director and Tongue-tie, 1 Exploring Needle, 1 Combined Male and Female Catheter with caustic holder, half dozen Needles and Silk; in Russia or seal

case; the cutting instruments have two blades in one handle, of shell or aluminum, with slide catch, . . . . . 13 50

- 362.** Improved Gross' Case, contains same as No. 361, with the addition of one Thermometer and Silver-barrel Hypodermic Syringe, . . 16 50

- 363.** Dr. W. W. Keen's Case, contains 1 Scalpel and 1 Straight Bistoury, 2 Curved Bistouries, sharp and probe point; 1 Tenotome and Tenaculum, 1 Gum Lancet and Perineum Needle, 1 Fenestrated Artery Forceps, slide catch; 1 Polypus Forceps, 1 Spring Forceps, 1 Straight Scissors, 1 Spoon Director, 1 pair Probes, 1 Gross' Ear Instrument, 1 Exploring Needle, 1 Male and Female Catheter, 1 Porte Caustic, 1 Thermometer, 1 Silver-barrel Hypodermic Syringe, half dozen Needles and Silk; in Russia or seal leather case; the cutting instruments have two blades in either aluminum or tortoise-shell handles, with slide catch, . . . . . 18 00

The boldface numbers represent instruments illustrated.

## POCKET INSTRUMENTS—Continued.

- NO. 364. Agnew's Case, contains 1 Scalpel and Straight Bistoury, 2 Curved Bistouries, probe and sharp point; 1 Tenotome and Tenaculum, 1 Slide Catch Artery Forceps, 1 Straight Scissors, 1 Artery and Dressing Forceps, 1 Large Spring Forceps, 1 Spoon Director, 1 pair Probes, 1 Neill's Probe, 1 Exploring Needle, 1 Male and Female Catheter combined with caustic holder, 1 Bellocq's Canula, 1 Soft Rubber Catheter, half dozen Needles and Silk; in Russia or seal case; the instruments have two blades, in either aluminum or tortoise-shell handles, with slide catch, . . . . . \$15 00

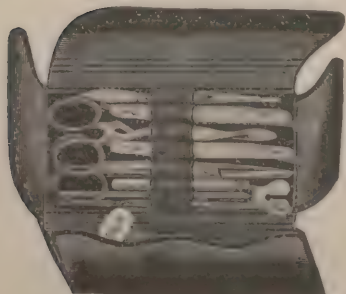


No. 365.

365. Dr. J. W. White's Case, contains 1 Scalpel and Straight Bistoury, 2 Curved Bistouries, sharp and probe point; 1 Tenotome and Tenaculum, 1 Liston's Artery Forceps, self closing; 1 Silver-barrel Hypodermic Syringe, 1 Thermometer, 1 Straight Scissors, 1 pair Probes, 1 Spoon Director, 1 Spring Forceps, 1 Exploring Needle, 1 Soft Catheter, half dozen Needles and Silk; in Russia or seal

leather case; the instruments have two blades, in either aluminum or tortoise-shell handles, . . . . . 13 50

366. Dr. C. M. Thomas' Case, contains 1 Tenotome and Straight Bistoury, 1 Tenaculum and Exploring Needle, 1 Slide Catch Artery and Needle Forceps, 1 Grooved Director, 1 pair Probes, 1 Straight Scissors, half dozen Needles and Silk; the instruments have two blades, in aluminum or tortoise-shell handles, with spring catch; Russia or seal case, . . . . . 8 00

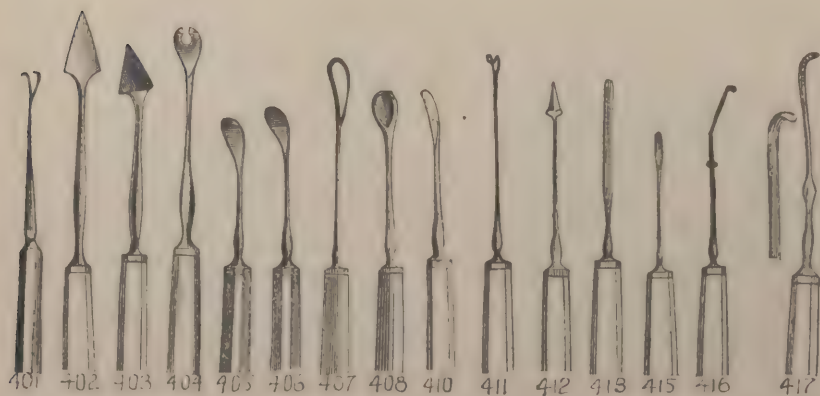


No. 367.

367. Dr. J. B. Deaver's Case, contains 1 Scalpel and Straight Bistoury, 2 Curved Bistouries, 1 Slide Catch Artery Forceps, 1 Scissors, 1 Pean's Artery and Dressing Forceps, 1 Exploring Needle, 1 Grooved Director, 1 pair Probes, 1 Gross' Ear Instrument, 1 Nelaton's Catheter, half dozen Needles and Silk; the instruments have two blades, in

aluminum or tortoise-shell handles, with slide catch; morocco case, 9 00

The boldface numbers represent instruments illustrated.

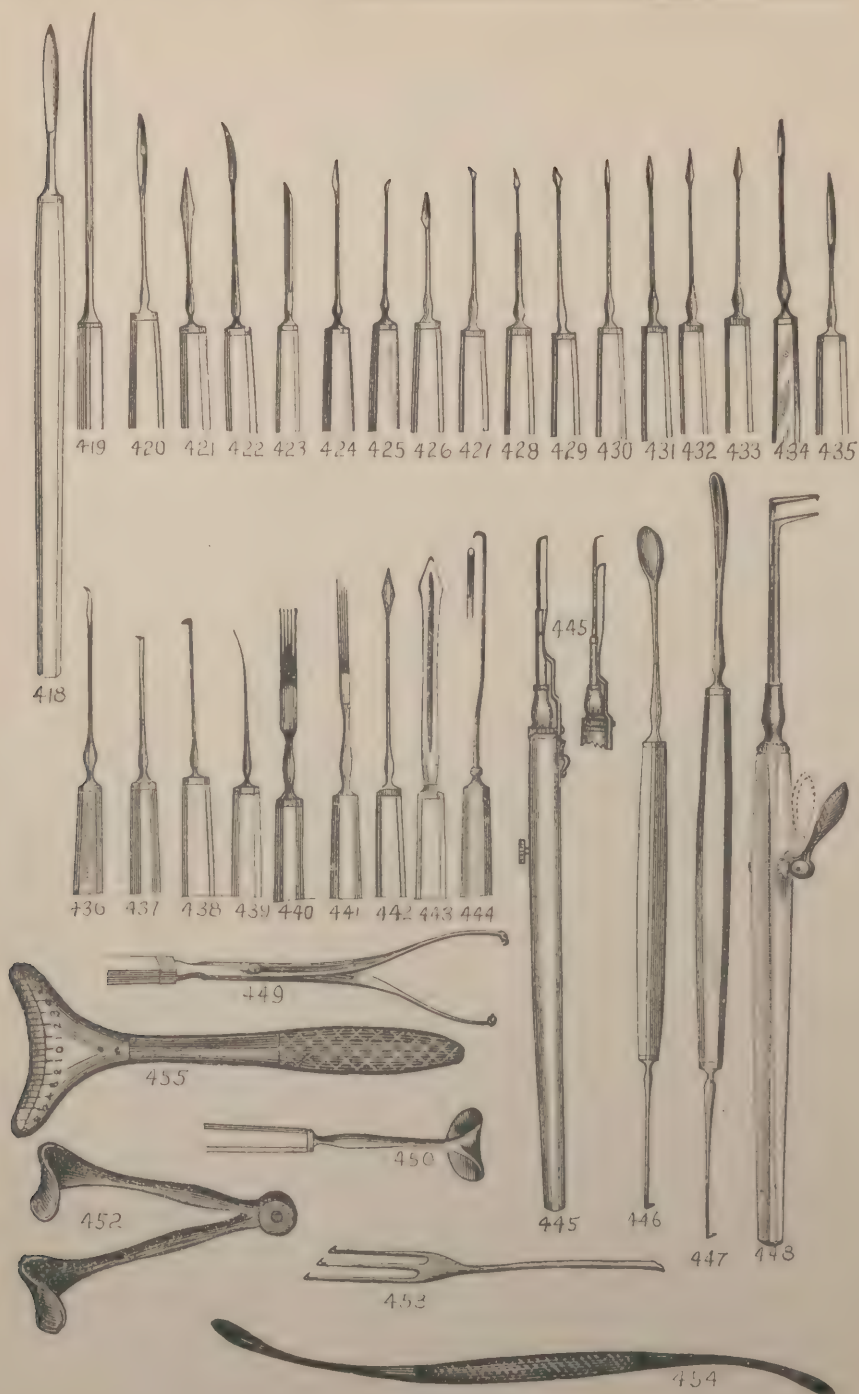




## EYE INSTRUMENTS.

NO.		PRICE.
375.	Beer's Cataract Knife, small, . . . . .	\$1 10
376.	“ “ “ medium, . . . . .	I 10
377.	“ “ “ large, . . . . .	I 10
378.	Noyes' Linear “ hollow ground, . . . . .	I 25
379.	Graefe's Linear “ . . . . .	I 15
380.	Liebrich's “ “ . . . . .	I 15
381.	Scalpel, . . . . .	I 10
382.	Knife for Lachrymal Fistula, . . . . .	I 25
383.	Baeder's Linear Knife, . . . . .	I 25
384.	Agnew's Iridectomy Knife, . . . . .	I 25
385.	Angular Cornea Knife, . . . . .	I 25
386.	Desmarre's Lid Scarificator, . . . . .	I 15
387.	Weber's Canaliculus Knife, full curved, . . . . .	I 15
388.	“ “ “ half “ . . . . .	I 15
389.	Noyes' Improved Canaliculus Knife, . . . . .	I 15
390.	Bowman's “ “ . . . . .	I 15
391.	Agnew's “ “ . . . . .	I 15
392.	Noyes' Plain “ “ . . . . .	I 15
393.	Strabismus Hook Bistoury, . . . . .	I 50
394.	“ “ large, . . . . .	90
395.	“ “ small, . . . . .	90
396.	Tyrrell's Sharp Hook, . . . . .	I 00
397.	“ Blunt “ . . . . .	I 00
398.	Double Fixation Hook, . . . . .	I 15
399.	Luzardi's Hooked Needle, . . . . .	I 15
400.	Critchett's “ “ . . . . .	I 15
401.	Weber's Double Hook, . . . . .	I 15
402.	Jaeger's Straight Keratome, . . . . .	I 25
403.	“ Angular “ . . . . .	I 25
404.	Noyes' Lens Scoop, . . . . .	I 25
405.	Critchett's Concave Scoop, . . . . .	I 15
406.	“ Serrated “ . . . . .	I 15
407.	Levis' Lens Scoop, . . . . .	I 25
408.	Tortoise-shell Lens Scoop, . . . . .	I 15
409.	Rubber “ “ . . . . .	I 15
410.	Daviel's Scoop, . . . . .	I 10
411.	Graefe's Lens Retractor, . . . . .	I 25
412.	Desmarre's Paracentesis Needle, . . . . .	I 20
413.	Spatula, shell, . . . . .	I 10
414.	“ hard rubber, . . . . .	I 10
415.	Dix's Spud, . . . . .	90
416.	Graefe's Tractor, . . . . .	I 10
417.	Knapp's Foreign Body Hook, . . . . .	I 50

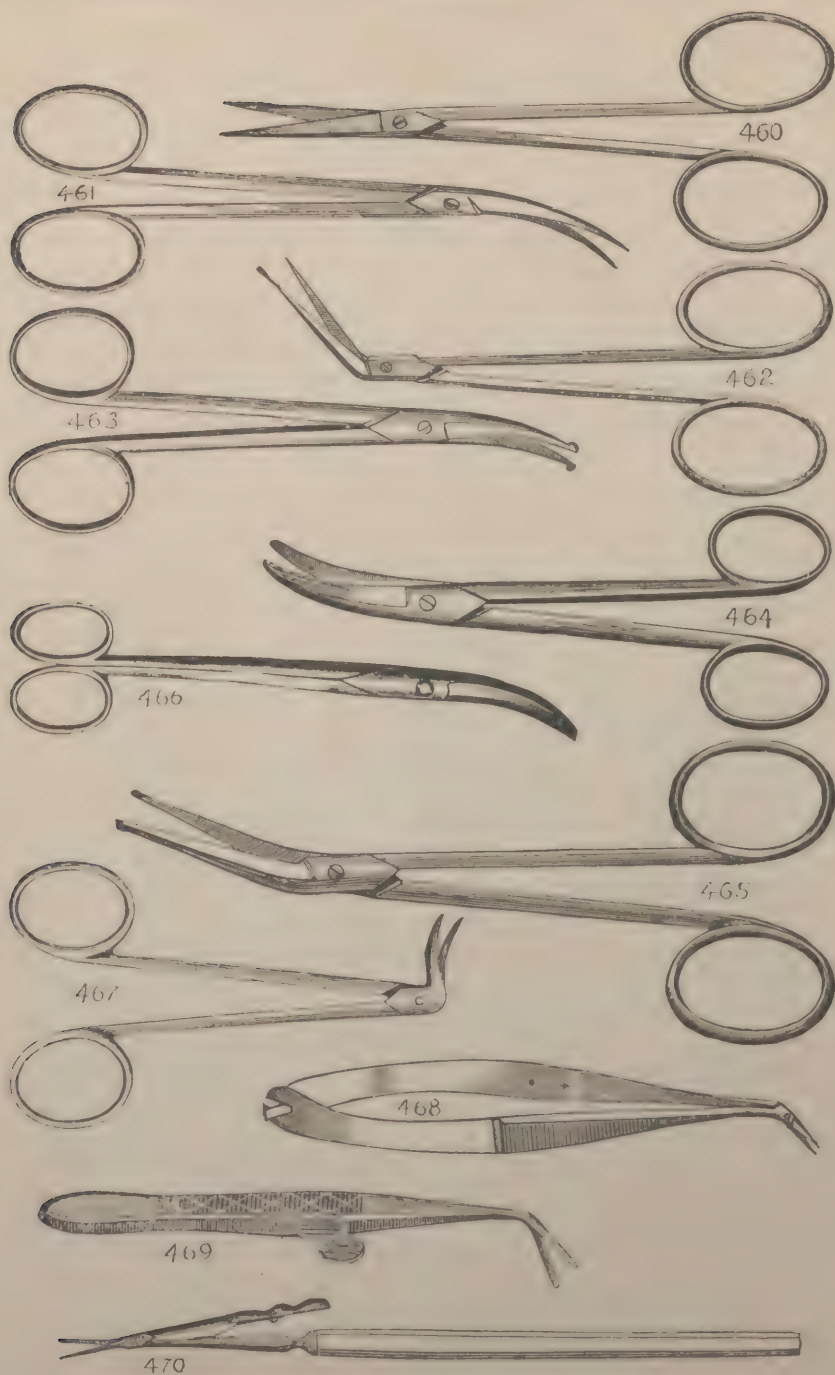
The boldface numbers represent instruments illustrated.



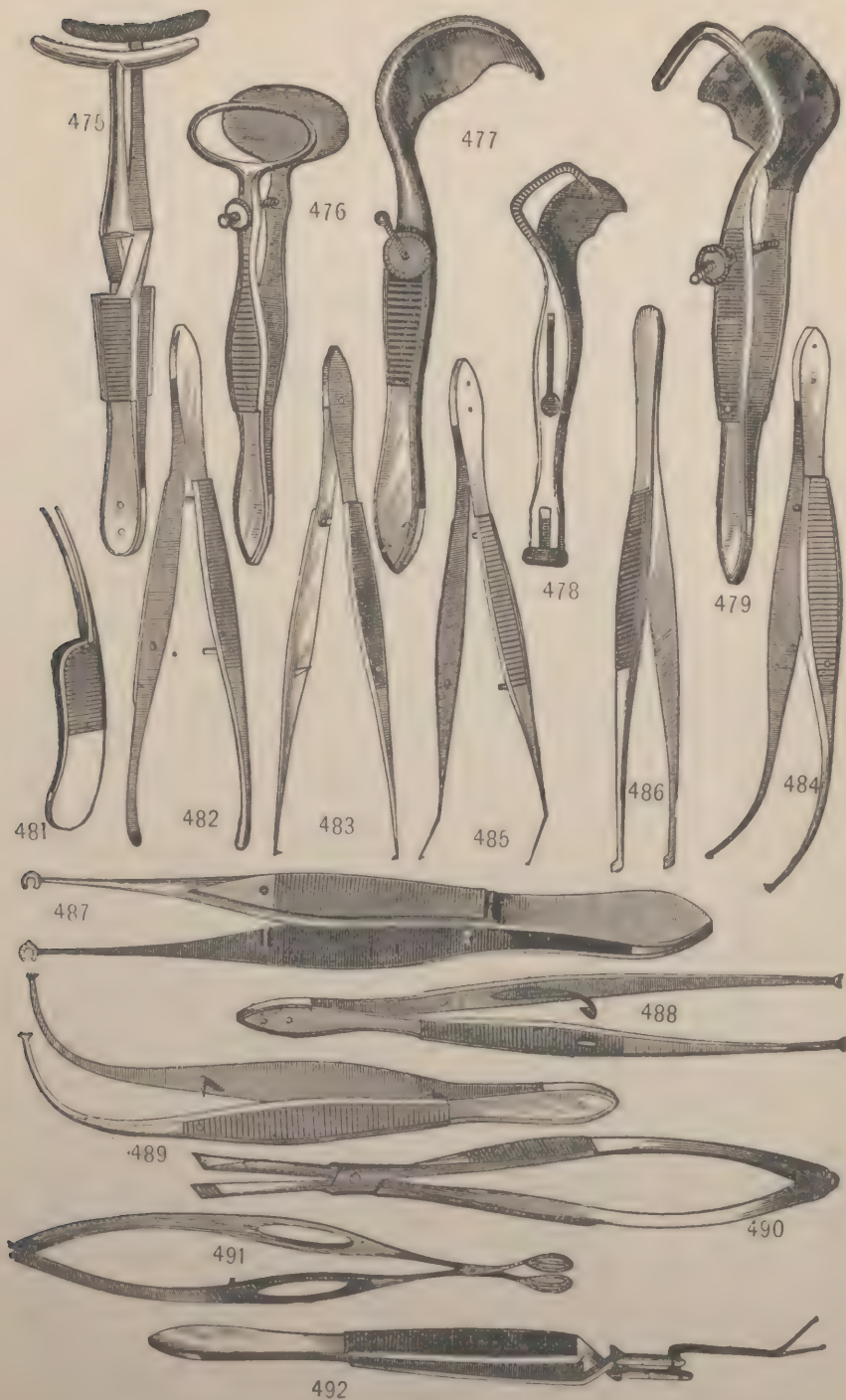
## EYE INSTRUMENTS—Continued.

NO.		PRICE.
418.	Scalpel, . . . . .	\$1 10
419.	Parker's Fistula Lachrymal Knife, . . . . .	1 15
420.	Double-edge Iris Knife, . . . . .	1 10
421.	Broad Paracentesis Needle, . . . . .	1 10
422.	Sichel's Iris Knife, . . . . .	1 25
423.	Adams' " " . . . . .	1 10
424.	Hayes' Needle, . . . . .	1 15
425.	Curved Cataract Needle, . . . . .	1 15
426.	Knife Needle, . . . . .	1 10
427.	Couching Needle, . . . . .	1 10
428.	Bowman's Stop Needle, . . . . .	1 10
429.	Scarpa's Curved Needle, . . . . .	1 15
430.	Narrow Straight Cataract Needle, . . . . .	1 10
431.	Broad " " " . . . . .	1 10
432.	Beer's Cataract Needle, curved, . . . . .	1 15
433.	" " " straight, . . . . .	1 10
434.	Knapp's Scalpel Needle, . . . . .	1 25
435.	Iris Knife, . . . . .	1 10
436.	Knapp's Needle Cystotome, . . . . .	1 15
437.	" Cystotome, . . . . .	1 15
438.	Graefe's " . . . . .	1 15
439.	Walton's Round-pointed Needle, . . . . .	1 10
440.	Agnew's Tattooing Needle, . . . . .	1 50
441.	Baeder's " " . . . . .	1 50
442.	Levis' Needle with Eye, . . . . .	1 25
443.	Walton's Grooved Needle for Soft Cataract, . . . . .	1 25
444.	Knapp's Foreign Body Hook, . . . . .	1 50
445.	Beaumont's Concealed Canaliculus Knife, . . . . .	6 00
446.	Tortoise-shell Scoop and Cystotome, . . . . .	1 75
447.	David's " " " . . . . .	1 75
448.	Wecker's Double Strabismus Hook, . . . . .	3 00
449.	Ball's Double Hook for Extirpation, . . . . .	2 25
450.	Desmarre's Lid Retractor, 2 sizes, . . . . . each	1 15
451.	Shell " " " . . . . .	1 15
452.	Lid Retractor, double, . . . . .	1 15
453.	Hansell's Lens Extractor, . . . . .	1 50
454.	Hard Rubber Spoon, double, . . . . .	1 00
455.	Lawrence's Strabismometer, . . . . .	1 75
460.	Straight Iris Scissors, . . . . .	1 10
461.	Curved " " . . . . .	1 25
462.	Angular Scissors, probe point on upper or lower blade, . . . . .	1 25
463.	Strabismus Scissors, curved on flat, probe points, . . . . .	1 25
464.	" " " " " blunt point, . . . . .	1 25

The boldface numbers represent instruments illustrated.







# C. H. GOLDTHWAITE & CO.,

## EYE INSTRUMENTS—Continued.

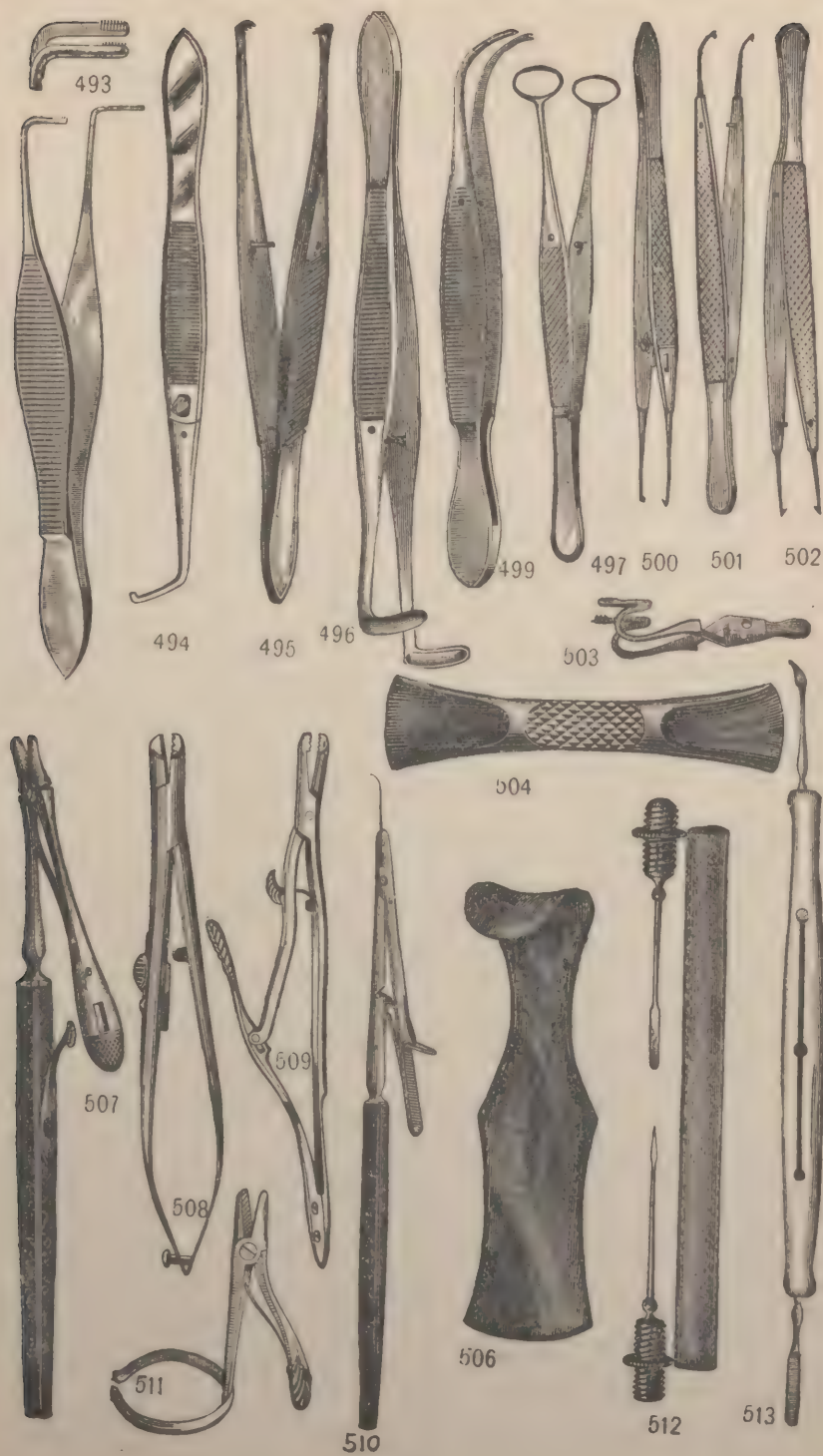
NO.		PRICE
465.	Strabismus Scissors, angular, . . . . .	\$1 25
466.	Enucleation Scissors, . . . . .	1 25
467.	Chadwick's Pterygium Scissors, . . . . .	2 50
468.	McClure's Iris Scissors, . . . . .	4 50
469.	Wecker's " " . . . . .	6 00
470.	Noyes' " " . . . . .	3 50
475.	Entropium Forceps, cross bar, . . . . .	2 50
476.	" " Desmarre's, . . . . .	2 50
477.	" " Knapp's, right or left, . . . . . each	2 50
478.	" " Prout's reversible, . . . . .	2 75
479.	" " Snellen's, right or left, . . . . . each	2 50
480.	" " Noyes', . . . . .	2 00
481.	Iris Forceps, Fischer's, . . . . .	1 00
482.	Cilia " . . . . .	75
483.	Iris " straight, . . . . .	1 10
484.	" " curved, . . . . .	1 25
485.	" " Graefe's angular, . . . . .	1 25
486.	Piffard's Epilating Forceps, . . . . .	1 25
487.	Ligature Forceps, Fox's, . . . . .	1 50
488.	Fixation " Graefe's, . . . . .	1 50
489.	" " curved, . . . . .	1 65
490.	Henry's Depilating Forceps, . . . . .	1 75
491.	Lens and Foreign Body Forceps, . . . . .	2 50
492.	Iris Forceps, Liebrich's latest, . . . . .	4 50
493.	" " Foster's, . . . . .	1 50
494.	Advancement Forceps, Prince's, . . . . .	1 75
495.	Fixation and Tumor Forceps, . . . . .	1 50
496.	Trachoma Forceps, Noyes', . . . . .	1 75
497.	" " Prince's, . . . . .	2 00
498.	" " Knapp's, . . . . .	2 50

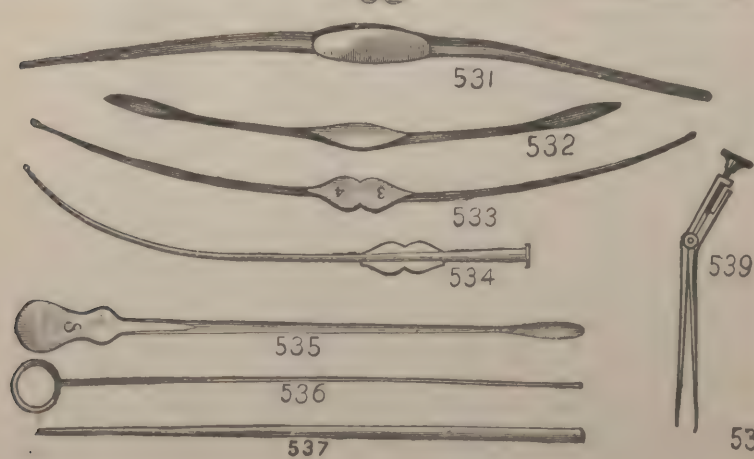
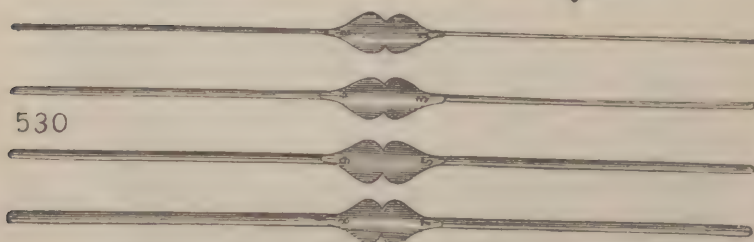
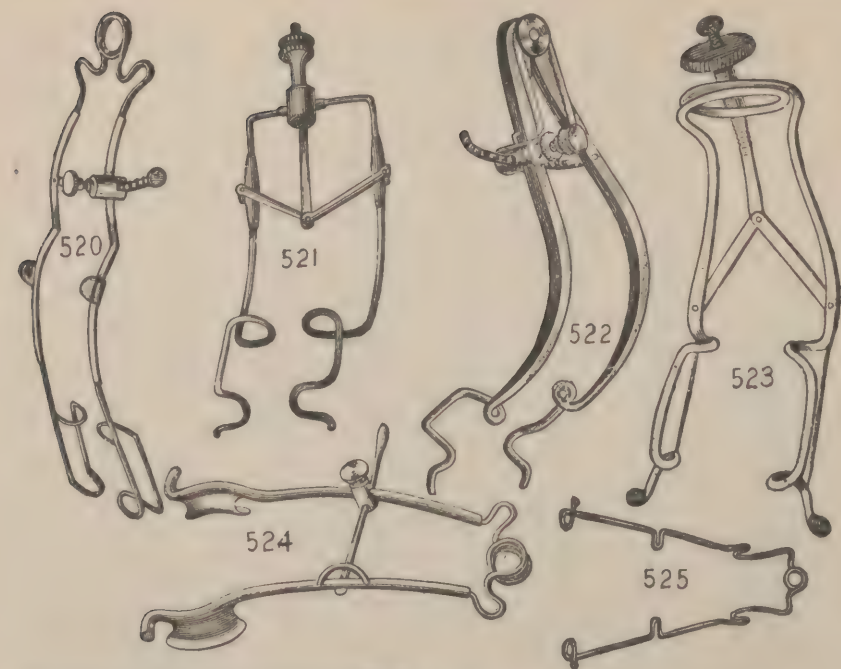


No. 498.

499.	Strabismus Forceps, . . . . .	1 25
500.	Fixation " Stevens', . . . . .	1 75
501.	Tendon " " curved, . . . . .	1 75
502.	" " " straight, . . . . .	1 65
503.	Fixation " Noyes', . . . . .	2 25
504.	Jaeger's Lid Spatula, hard rubber, . . . . .	75
505.	" " " tortoise shell, . . . . .	1 00

The boldface numbers represent instruments illustrated.





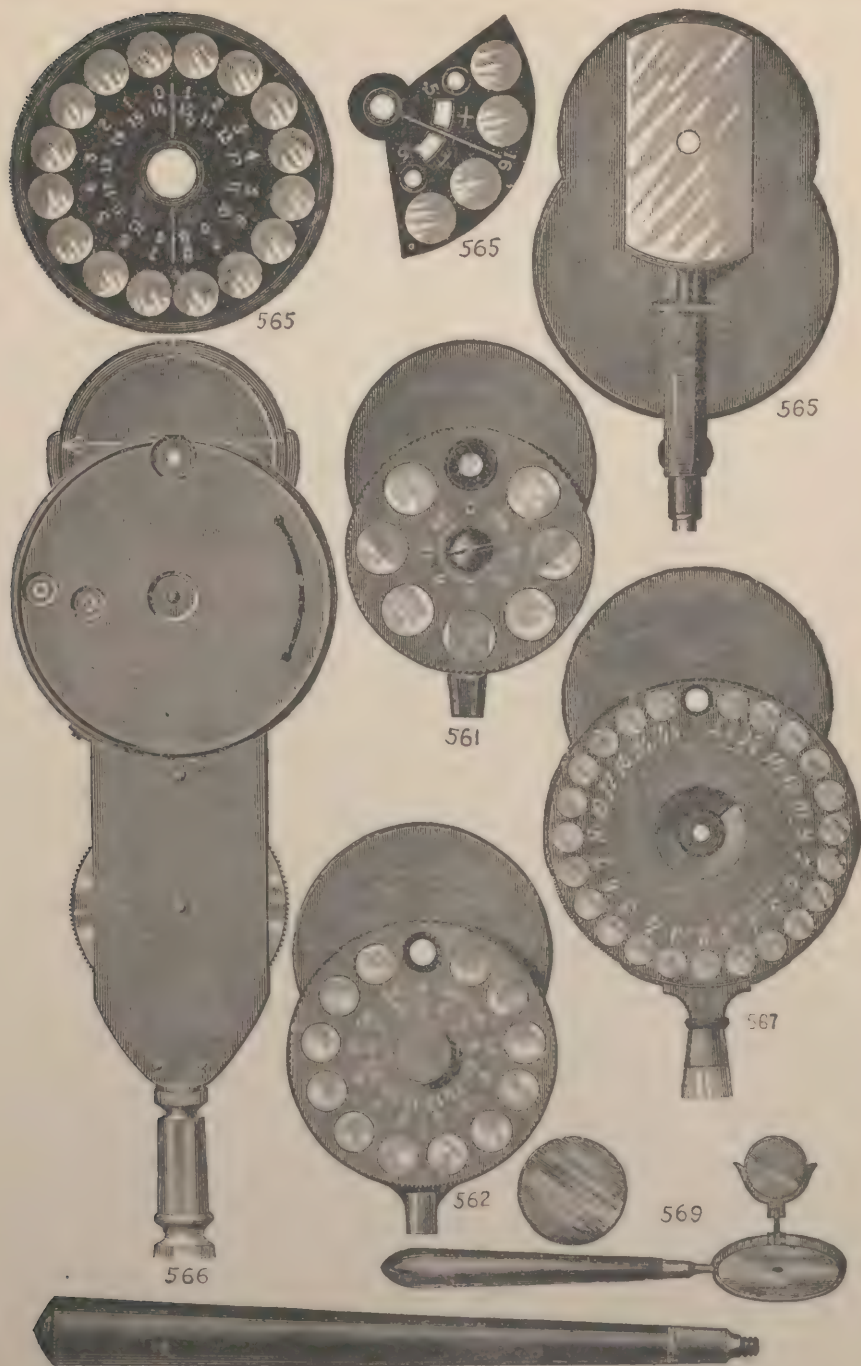


## EYE INSTRUMENTS—Continued.

NO.		PRICE.
506.	Fox's Lid Retractor, . . . . .	\$0 75
507.	Needle Holder, Knapp's, . . . . .	3 00
508.	“ “ Prout's, . . . . .	2 50
509.	“ “ Sands', . . . . .	3 25
510.	“ “ Stevens', . . . . .	4 75
511.	“ “ Galezowsky's, . . . . .	2 00
512.	Pocket Spud and Needle, metal handle, . . . . .	1 60
513.	“ “ “ “ ivory “ . . . . .	2 00
519.	Eye Speculum, Stevens', . . . . .	2 00
520.	“ “ Graefe's, . . . . .	1 50
521.	“ “ Galante's, . . . . .	1 50
522.	“ “ Fox's, . . . . .	2 50
523.	“ “ Noyes', . . . . .	1 50
524.	“ “ Lawrence's, . . . . .	1 00
525.	“ “ plain wire, . . . . .	35
526.	“ “ “ “ with stop, . . . . .	1 00
527.	“ “ Liebrich's, . . . . .	1 50
530.	Bowman's Probes, 8 sizes, . . . . . per set	2 00
531.	Weber's Probe, . . . . .	1 00
532.	Williams' Lachrymal Dilator, . . . . .	1 00
533.	“ “ Probes, 8 sizes, . . . . . per set	2 25
534.	Wecker's Lachrymal Cannula, silver, . . . . .	1 25
535.	Noyes' Probes, 8 sizes, . . . . . each	1 00
536.	Anel's Probe, silver, . . . . .	25
537.	Peck's Lachrymal Dilator, . . . . .	25
538.	Bowman's Director, . . . . .	50
539.	Galezowsky's Canaliculus Dilator, . . . . .	1 90
540.	Anel's Eye Syringe, silver points, . . . . .	3 50
541.	Agnew's Lachrymal Syringe, . . . . .	3 50
542.	McFarlan's “ “ . . . . .	1 50
543.	DeSchweinitz's “ “ with 2 Wecker's Cannulæ, . . . . .	5 50
544.	Eye Styles, hard rubber, . . . . .	20
545.	“ “ silver, . . . . .	25
546.	“ “ cannulated, . . . . .	25
547.	“ “ “ silver, . . . . .	40
550.	“ Bath Glass, . . . . .	25
551.	“ “ Bottle, . . . . .	50
552.	“ Pipette, . . . . .	10
553.	“ Shades, single, . . . . .	20
554.	“ “ double, . . . . .	25
555.	Heurteloup's Leech, improved, . . . . .	8 00
556.	Hard Rubber Stop-cock Eye Douche, . . . . .	1 00
557.	Test Drum, . . . . .	75

The boldface numbers represent instruments illustrated.





C. H. GOLDTHWAITE & CO.,

### EYE INSTRUMENTS—Continued.

NO.		PRICE.
558.	Ophthalmo Phantome, . . . . .	\$10 00
560.	Nachet's Complete Set of Trial Glasses, . . . . .	100 00
561.	Loring's 7 Lens Ophthalmoscope, . . . . .	5 00
562.	"     12     "                 "	8 50
563.	"     15     "                 "	11 00
565.	"     23     "                 "     with Tilting Mirror and Quadrant,	18 00
566.	Fox's Ophthalmoscope, . . . . .	25 00
567.	Knapp's Ophthalmoscope, 23 lens, . . . . .	20 00
568.	Keyser's             "                 "	18 00
569.	Liebrich's          "                 "	3 00

## EYE-CASES.

571. Eye-Case, contains 1 Beer's Cataract Knife, 1 Graefe's Cataract Knife, 1 Bowman's Stop Needle, 1 Beer's Needle, 1 Strabismus Hook, 1 Double Hook, 1 Strabismus Scissors, 1 Iris Scissors, 1 Fixation Forceps, 1 Iris Forceps, 1 Stop Speculum, Needles and Silk ; in leather-covered case, . . . . . 15 00
572. Eye-Case, contains 2 Graefe's Knives, 1 Beer's Knife, 1 Levis' Wire Scoop, 1 Bowman's Stop Needle, 1 Bowman's Stop Needle, curved ; 1 Beer's Needle, 1 Cystotome, 1 Tyrrell's Hook, 1 Strabismus Hook, 1 Strabismus Scissors, 1 Iris Scissors, 1 Fixation Forceps, 1 Iris Forceps, straight ; 1 Iris Forceps, curved ; 1 Stop Speculum, Needles and Silk ; in leather-covered case, . . . . . 20 00
573. Eye-Case, contains 1 Graefe's Knife, 1 Weber's Canaliculus Knife, 1 Bowman's Stop Needle, 1 Angular Keratome, 1 Strabismus Hook, 1 Hay's Needle, 1 Shell Retractor, 1 Paracentesis Needle, 1 Daviel's Scoop and Cystotome, 1 Critchett's Serrated and Concave Scoop, 1 Strabismus Scissors, straight ; 1 Iris Scissors, curved on flat : 1 Desmarre's Entropium Forceps, 1 Iris Forceps, straight ; 1 Fixation Forceps, 1 Prout's Needle Holder, 1 Stop Speculum, 1 set Bowman's Probes (8 sizes), Needles and Silk ; in leather-covered case, . . . . . 25 00
574. Eye-Case, Fox's, contains 1 Graefe's Knife, 1 Beer's Knife, 1 Weber's Canaliculus Knife, 1 Angular Keratome, 1 Bowman's Stop Needle, 1 Broad Needle, 1 Strabismus Hook, 1 Tyrrell's Sharp Hook, 1 Critchett's Serrated and Concave Scoop, 1 Daviel's Scoop and Cystotome, 2 Shell Lid Retractors, 1 Jaeger's Lid Spatula, 1 Iridectomy Forceps, curved ; 1 Fixation Forceps, 1 Ligature Forceps, 1 Conical Lachrymal Dilator, 2 Lachrymal Probes (4 sizes), 1 Iridectomy Scissors, angular ; 1 Strabismus Scissors, straight ; 1 Enucleation Scissors, curved on flat ; 1 Fox's Eye Speculum, Needles and Silk ; in leather-covered case, . . . . . 30 00

The boldface numbers represent instruments illustrated.



## EYE-CASES—Continued.

NO.		PRICE.
575.	Eye-Case, Hansell's, contains 2 Graefe's Knives, 1 Keratome, straight; 1 Keratome, bent; 1 Graefe's Cystotome, 1 Strabismus Hook, 1 Bowman's Stop Needle, 1 Fox's Speculum, 1 Critchett's Double Scoop, 1 Weber's Canaliculus Knife, 1 bent Iris Forceps, 1 Straight Iris Forceps, long; 1 Fixation Forceps, 1 Cilia Forceps, 1 McClure's Iris Scissors, 1 Enucleation Scissors, 1 Conjunctival Scissors, 1 Desmarre's Lid Retractor, 1 set Bowman's Probes, 1 Desmarre's Entropium Forceps, 1 Jaeger's horn Plate, 1 Dix's Spud, 1 Hansell's Lens Retractor, 1 Needle Holder, Needles and Silk; in leather-covered case, . . . . .	\$38 00
576.	Eye-Case, Agnew's, contains 2 Graefe's Cataract Knives, 1 Beer's Cataract Knife, 1 Small Needle, 1 Tyrrell's Sharp Hook, 1 Desmarre's Paracentesis Needle, 1 Agnew's Canaliculus Knife, 1 Strabismus Hook, 1 Agnew's Strabismus Hook, 1 Agnew's Tattooing Needle, 1 Bowman's Stop Needle, 1 Iris Needle, 1 Angular Keratome, 1 Graefe's Cystotome, 1 Desmarre's Double Lid Retractor, 1 Prout's Needle Holder, 1 Strabismus Forceps, 1 Straight Iris Forceps, 1 Spring Catch Fixation Forceps, 1 Enucleation Scissors, 1 Strabismus Scissors, 1 Iris Scissors, 1 Hard Rubber Lens Scoop, 2 Graefe's Specula, right and left; 1 set of Bowman's Probes, 1 Weber's Probe, 1 Bowman's Lachrymal Director, 1 Agnew's Lachrymal Syringe, Needles and Silk; in morocco-covered case, . . . . .	45 00

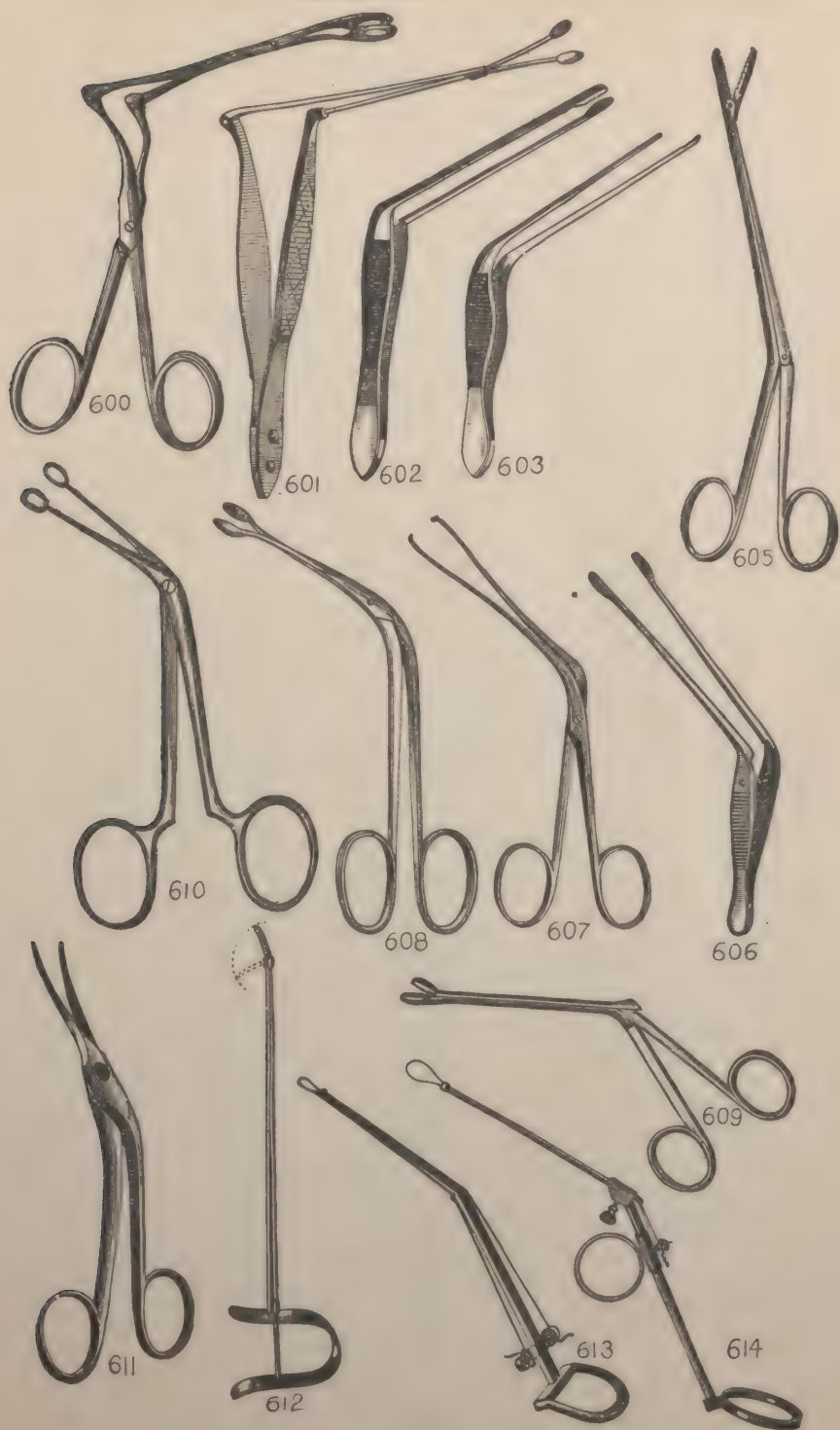
The above sets of eye instruments can be put in polished wood cases, if desired, at a slight additional cost.

## EAR INSTRUMENTS.

580.	Ear Specula, Toynbee's, hard rubber, set of 4, . . . . .	65
581.	“ “ “ metal, “ 3, . . . . .	1 50
582.	“ “ Gruber's, hard rubber, “ 4, . . . . .	65
583.	“ “ “ metal, “ 3, . . . . .	1 50
584.	“ “ Wilde's, hard rubber, “ 3, . . . . .	50
585.	“ “ “ metal, “ 3, . . . . .	1 00
586.	“ “ Turnbull's, metal, one size, . . . . .	65
587.	“ “ “ “ for children, . . . . .	65
588.	“ “ Kramer's, three sizes, . . . . . each	1 00
589.	“ “ Speer's, self-retaining, . . . . .	1 50
590.	Otoscopes, Brunton's, . . . . .	4 50
591.	“ Siegle's, . . . . .	3 00
592.	“ Bishop's, . . . . .	10 00
593.	“ Simrock's, with lens, . . . . .	3 00

The boldface numbers represent instruments illustrated.

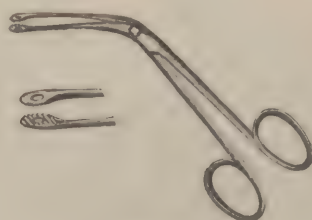




# C. H. GOLDTHWAITE & CO.,

## EAR INSTRUMENTS—Continued.

NO.		PRICE.
<b>594.</b>	Ear Mirror, three-inch, with handle, . . . . .	\$2 50
<b>595.</b>	Toynbee's Diagnostic Tube, . . . . .	50
<b>596.</b>	Blake's Inner Ear Mirrors, . . . . . per set	6 00
<b>597.</b>	Tuning Fork, Lucas', . . . . .	6 00
<b>598.</b>	" " large, . . . . .	3 00
<b>599.</b>	" " small, . . . . .	1 50
<b>600.</b>	Hinton's Ear Forceps . . . . .	3 50
<b>601.</b>	Bumstead's Ear Forceps, . . . . .	3 00
<b>602.</b>	Politzer's " " . . . . .	1 75
<b>603.</b>	Wilde's " " serrated, . . . . .	1 00
<b>604.</b>	" " " mouse tooth, . . . . .	1 00
<b>605.</b>	Noyes' " " . . . . .	3 25
<b>606.</b>	Sexton's " " . . . . .	1 50
<b>607.</b>	Pomeroy's " " . . . . .	1 85
<b>608.</b>	Politzer's Ring Handle Ear Forceps, . . . . .	1 75
<b>609.</b>	Curette Forceps, . . . . .	4 00
<b>610.</b>	Bacon's Blunt Curette Forceps, . . . . .	2 00
<b>611.</b>	Gruber's Scissors, . . . . .	2 00
<b>612.</b>	Quire's Nasal and Ear Curette, . . . . .	2 00
<b>613.</b>	Wilde's Polypus Snare, . . . . .	2 50
<b>614.</b>	Blake's " " . . . . .	2 50

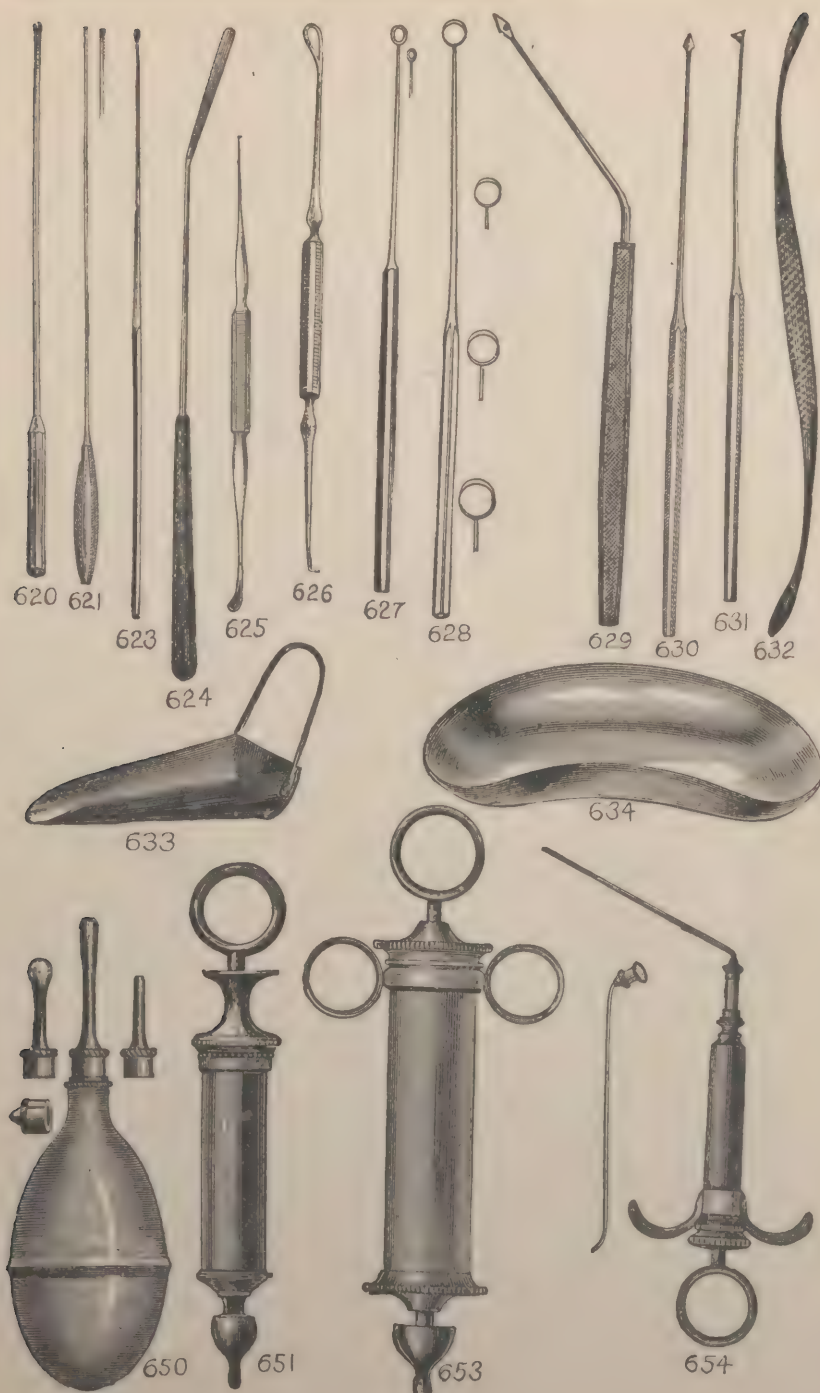


No. 615.

<b>615.</b>	Ivins' Ear Forceps, . . . . .	2 00
<b>620.</b>	Applicators, Allen's, aluminum, . . . . .	25
<b>621.</b>	Cotton Carrier, Buck's, steel, . . . . .	35
<b>623.</b>	Buck's Silver Probe, . . . . .	50
<b>624.</b>	Acid Applicator, Bosworth's, aluminum, . . . . .	1 00
<b>625.</b>	Gross' Ear Spoon, with hook, . . . . .	60
<b>626.</b>	" Fenestrated Spoon, with hook, . . . . .	75
<b>627.</b>	Buck's Curette, dull, . . . . .	60
<b>628.</b>	" " sharp, . . . . .	60
<b>629.</b>	Tympanum Perforator, angular, . . . . .	1 00
<b>630.</b>	" " straight, . . . . .	1 00

The boldface numbers represent instruments illustrated.



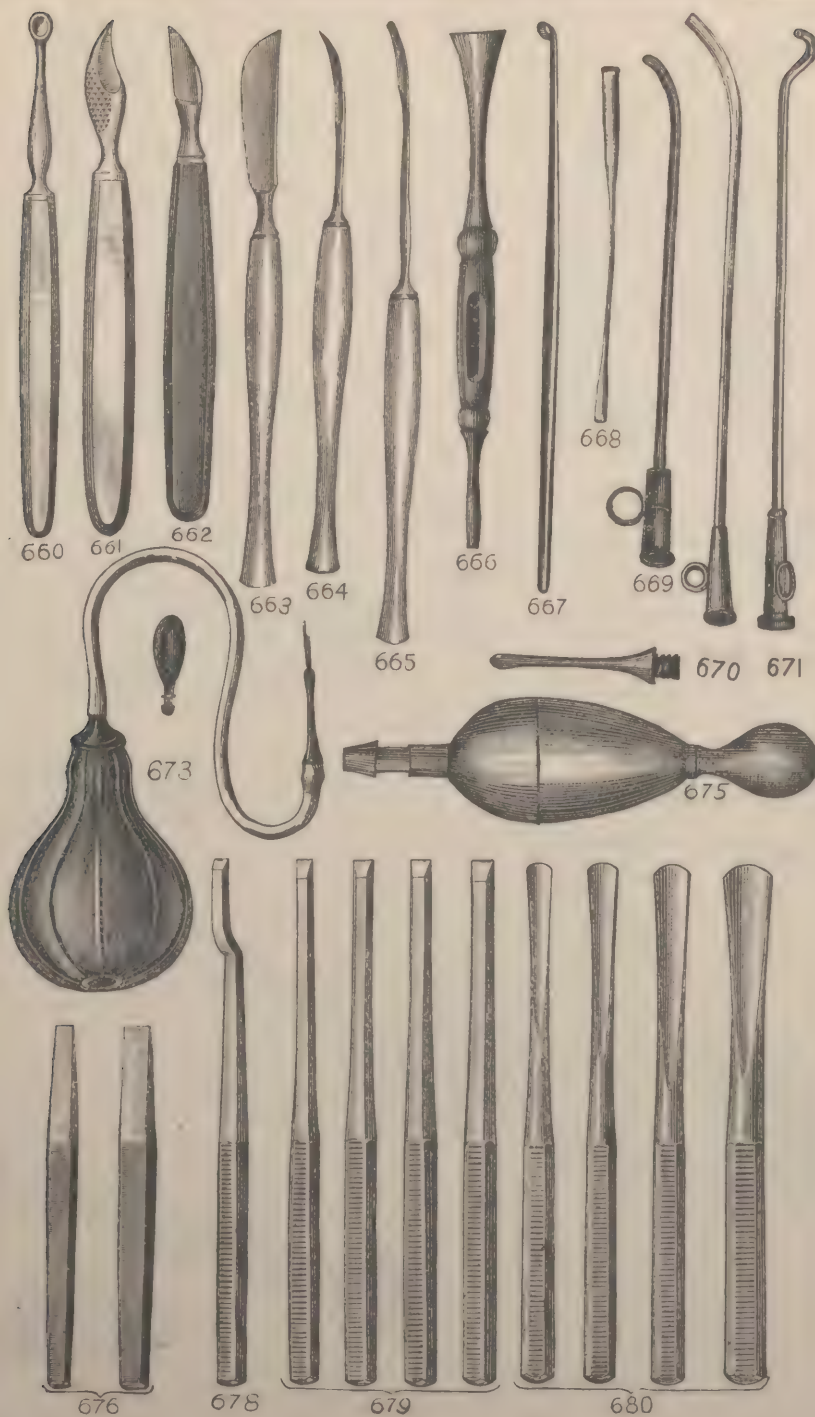


# C. H. GOLDTHWAITE & CO.,

## EAR INSTRUMENTS—Continued.

NO.		PRICE.
<b>631.</b>	Buck's Furuncle Knife, . . . . .	\$1 00
<b>632.</b>	Hard Rubber Ear Spoon, . . . . .	75
<b>633.</b>	Ear Spout, Hosner's, metal, nickel-plated, . . . . .	25
<b>634.</b>	Ear Basin, metal, large, . . . . .	1 00
635.	" " " medium, . . . . .	1 00
636.	" " " small, . . . . .	1 00
637.	" " Agate ware, large, style of No. 634, . . . . .	1 50
638.	" " " " medium, " " . . . . .	1 25
639.	" " " " small, " " . . . . .	1 00
640.	" " hard rubber, large, " " . . . . .	1 50
641.	" " " " medium, " " . . . . .	1 35
642.	" " " " small, " " . . . . .	1 25
643.	" " papier-maché, large, " " . . . . .	60
644.	" " " " medium, " " . . . . .	35
645.	" " " " small, " " . . . . .	25
646.	" " " " triangle, . . . . .	85
647.	" " hard rubber, " . . . . .	2 00
<b>650.</b>	Bulb Ear Syringe, with 3 tubes, . . . . .	1 50
<b>651.</b>	Ear Syringe, hard rubber, ½ oz., . . . . .	75
652.	" " " " 1 oz., . . . . .	1 00
<b>653.</b>	" " Kramer's, metal, . . . . .	2 00
<b>654.</b>	Blake's Inner Ear Syringe, 2 silver pipes, . . . . .	3 00
<b>660.</b>	Politzer's Mastoid Scoop, . . . . .	1 15
<b>661.</b>	" " Knife, . . . . .	1 15
<b>662.</b>	Burnett's " " . . . . .	1 15
<b>663.</b>	Buck's " " ivory handle, . . . . .	1 20
<b>664.</b>	" Sharp-pointed Bistoury, ivory handle, . . . . .	1 10
<b>665.</b>	" Probe " " " " . . . . .	1 25
<b>666.</b>	Knapp's Powder Blower, . . . . .	1 00
<b>667.</b>	Bishop's Inner Ear Curette, . . . . .	1 00
<b>668.</b>	Buck's Porte Acid, . . . . .	15
<b>669.</b>	Eustachian Catheters, rubber, 4 sizes, . . . . . each	50
<b>670.</b>	" " silver, 4 " . . . . . " 1 00	
<b>671.</b>	" " Noyes', right or left, . . . . . " 1 50	
672.	Politzer's Inflating Apparatus, 6 oz., . . . . .	1 50
673.	" " " 8 oz., . . . . .	1 75
674.	" " " 10 oz., . . . . .	2 00
<b>675.</b>	Buttler's Inhaler, hard rubber, 3 pipes, . . . . .	1 00
<b>676.</b>	Buck's Chisel, . . . . .	75
677.	" Drills, . . . . . per set of 3, 2 25	
<b>678.</b>	Schwarz's Bent Chisel. . . . .	75
<b>679.</b>	" Chisels, 4 sizes, . . . . . each	75
<b>680.</b>	" Gouges, " . . . . . " 85	

The boldface numbers represent instruments illustrated.





692.



718.



694.



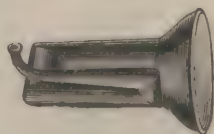
696.



691.



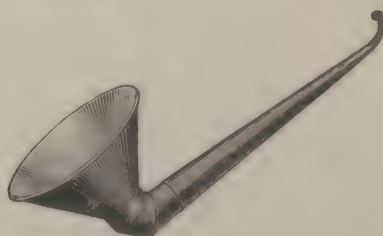
702.



708.



717.



705.



(OPEN.)

711.

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# 186 WASHINGTON ST., BOSTON.

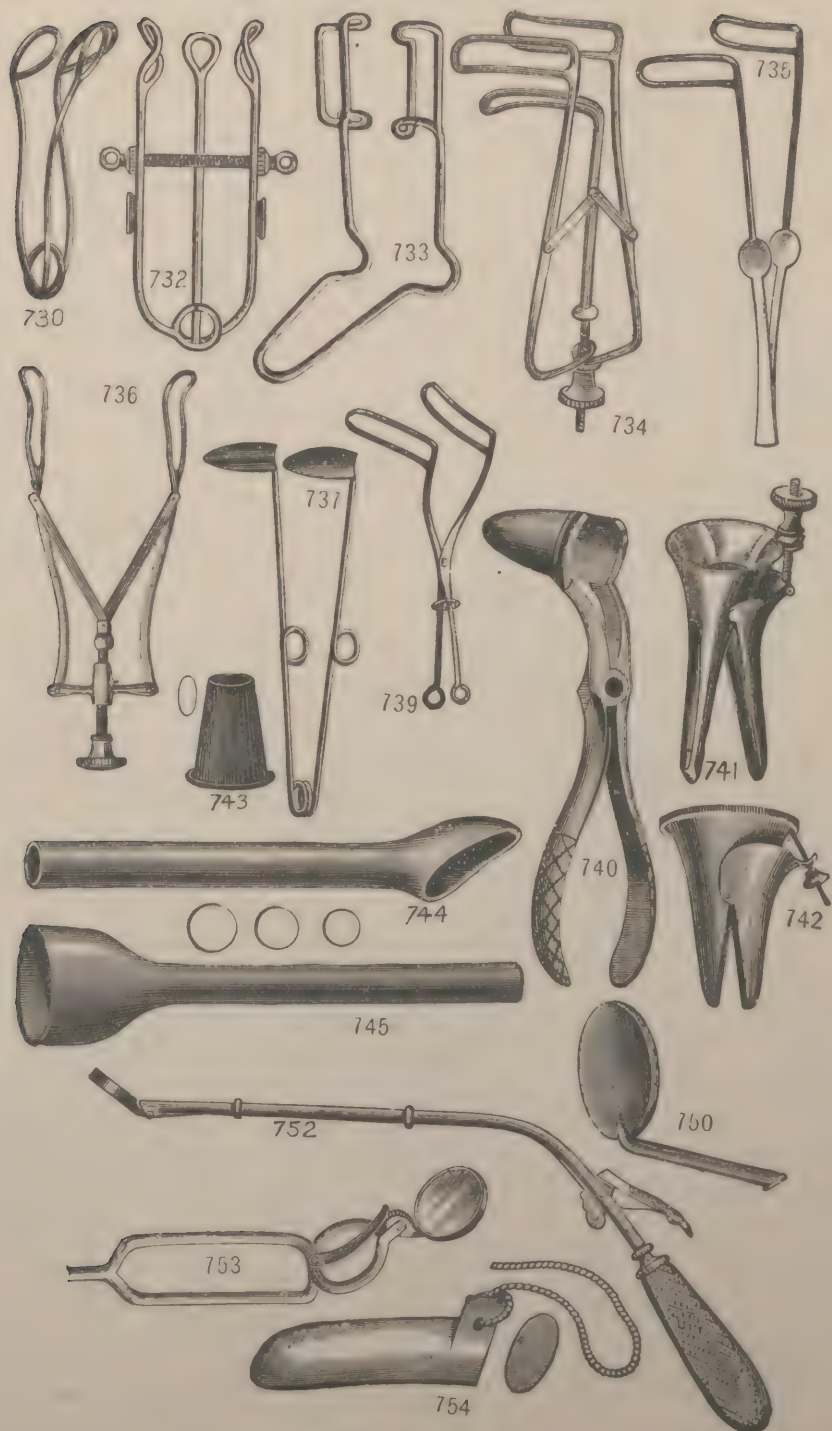
## INSTRUMENTS TO ASSIST THE HEARING.

NO.		PRICE.
690.	Auricles, silk-covered, . . . . . per pair	\$5 00
691.	“ morocco-covered, . . . . . “	3 50
692.	“London” Hearing Horn, silver-plated, 3 sizes, . . . . . each	4 50
693.	“ “ “ black finish, “ . . . . . “	4 50
694.	“London Dome” Hearing Horn, silver-plated, . . . . .	6 00
695.	“ “ “ “ black finish, . . . . .	6 00
696.	Conversation Tube, mohair-covered, 3 feet, . . . . .	2 50
697.	“ “ “ “ 6 “ . . . . .	4 00
698.	“ “ silk “ 3 “ . . . . .	3 50
699.	“ “ “ “ 6 “ . . . . .	5 00
700.	“ “ “ “ large, conical, . . . . .	5 00
701.	“ “ mohair “ “ “ . . . . .	4 00
702.	“ Trumpet, . . . . .	10 00
703.	Tin Trumpet, diameter $3\frac{3}{8}$ in., . . . . .	1 25
704.	“ “ “ $4\frac{1}{8}$ “ . . . . .	1 25
705.	“ “ “ 5 “ . . . . .	1 50
706.	“ “ “ $5\frac{1}{4}$ “ . . . . .	1 50
707.	“ “ “ $5\frac{3}{4}$ “ . . . . .	1 75
708.	Bent Tin Trumpet, japanned, . . . . .	2 50
709.	“ “ “ nickel, . . . . .	3 50
710.	Hard Rubber Telescopic Trumpet, 2 joints, . . . . .	3 50
711.	“ “ “ “ 3 “ . . . . .	5 00
712.	“ “ “ “ 2 “ plain, round bowl, . . . . .	3 00
713.	“ “ “ “ 3 “ “ “ “ . . . . .	3 50
714.	Sound Conductor, silver, . . . . .	1 50
715.	“ “ “ . . . . .	1 50
716.	“ “ gold, . . . . .	1 50
717.	Audiphone, Rhode's, . . . . .	6 00
718.	Artificial Ear Drum, . . . . .	50

## NASAL INSTRUMENTS.

730.	Goodwillie's Nasal Speculum, 3 blades, . . . . .	60
731.	“ “ “ 2 “ . . . . .	50
732.	Sajous' Modification of Goodwillie's Nasal Speculum, . . . . .	1 25
733.	Gleason's Nasal Speculum, . . . . .	50
734.	Potter's “ “ . . . . .	1 50
735.	Bosworth's “ “ . . . . .	75
736.	Frankel's “ “ . . . . .	1 25
737.	Ivins' “ “ . . . . .	50
738.	Folsom's “ “ . . . . .	1 00

The boldface numbers represent instruments illustrated.





# C. H. GOLDTHWAITE & CO.,

## NASAL INSTRUMENTS—Continued.

NO.		PRICE.
739.	Jarvis' Nasal Speculum, . . . . .	\$0 50
740.	Kramer's Bivalve " . . . . .	1 00
741.	Collins' Nasal " . . . . .	2 00
742.	Roberts' " " . . . . .	1 50
743.	Hard Rubber Nasal Speculum, 3 sizes, . . . . . per set	1 00
744.	Goodwillie's Nasal Dilator, . . . . .	75
745.	Zaufal's Nasal Speculum, . . . . .	1 00
750.	Plain Rhinoscopic Mirror, . . . . .	50
751.	Universal Handle, metal or hard rubber (see illustration, No. 380, . . . . .	50
752.	Frankel's Rhinoscopic Mirror, . . . . .	4 50
753.	Jarvis' " " and Tongue Depressor, . . . . .	3 00
754.	Nasal Plugs, hard rubber, 3 sizes, . . . . . each	50
760.	Hard Rubber Post Nasal Syringe, . . . . .	90
761.	Shoemaker's Nasal Spray, . . . . .	60
762.	Pocket Inhaling Tube, glass, . . . . .	20
763.	Leffert's Spray Apparatus, with 3 points, . . . . .	2 25
764.	Thudicum's Nasal Douche, . . . . .	75
765.	Warner's Catarrhal " . . . . .	75
766.	Nasal Atomizer, hard rubber tip, . . . . .	1 25
767.	Philadelphia Atomizer, style 1, curved upward, . . . . .	80
	" " " 2, " downward, . . . . .	80
	" " " 3, straight, . . . . .	80
770.	Sajous' Nasal Powder Blower, for patients' use, . . . . .	40
771.	Bridges' Auto Insufflator, . . . . .	60
772.	Applicator, Ivins' Post Nasal, . . . . .	40
773.	" " Nasal, . . . . .	40
774.	" Bosworth's, . . . . .	40
775.	" Allen's, aluminum, . . . . .	25
776.	Baily's Acid Applicator, . . . . .	1 25
777.	Belocq's Canula, for epistaxis, . . . . .	1 00
778.	Gooch's " . . . . .	1 25
779.	Jarvis' Transfixing Needles, straight or curved, . . . . . each	25



No. 780.

780.	Coomes' Nasal Forceps, . . . . .	2 50
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The boldface numbers represent instruments illustrated.

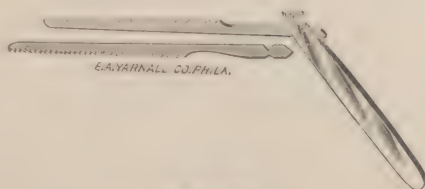


NASAL INSTRUMENTS—Continued.



No. 781.

NO.		PRICE
781.	Coomes' Nasal Cutting Forceps, . . . . .	\$3 00



No. 802.

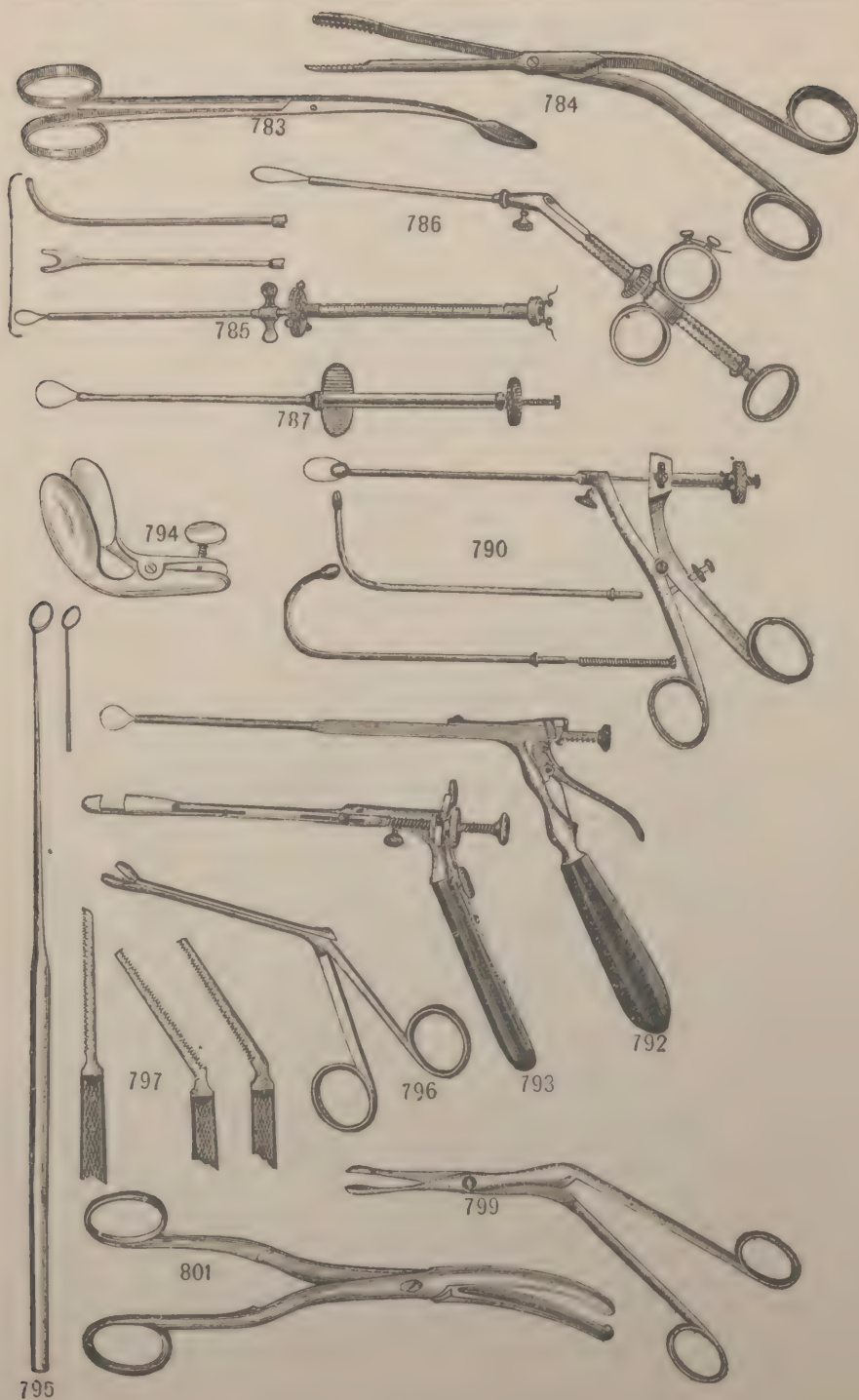
782.	Coomes' Nasal Scissors, . . . . .	4 00
783.	Gross' Polypus Forceps, . . . . .	1 50
784.	Simrock's " " . . . . .	2 00
785.	Cohen's Combination Snare, . . . . .	6 00
786.	Bosworth's Improved " " . . . . .	2 50
787.	Jarvis' Snare, straight or curved, . . . . .	2 00

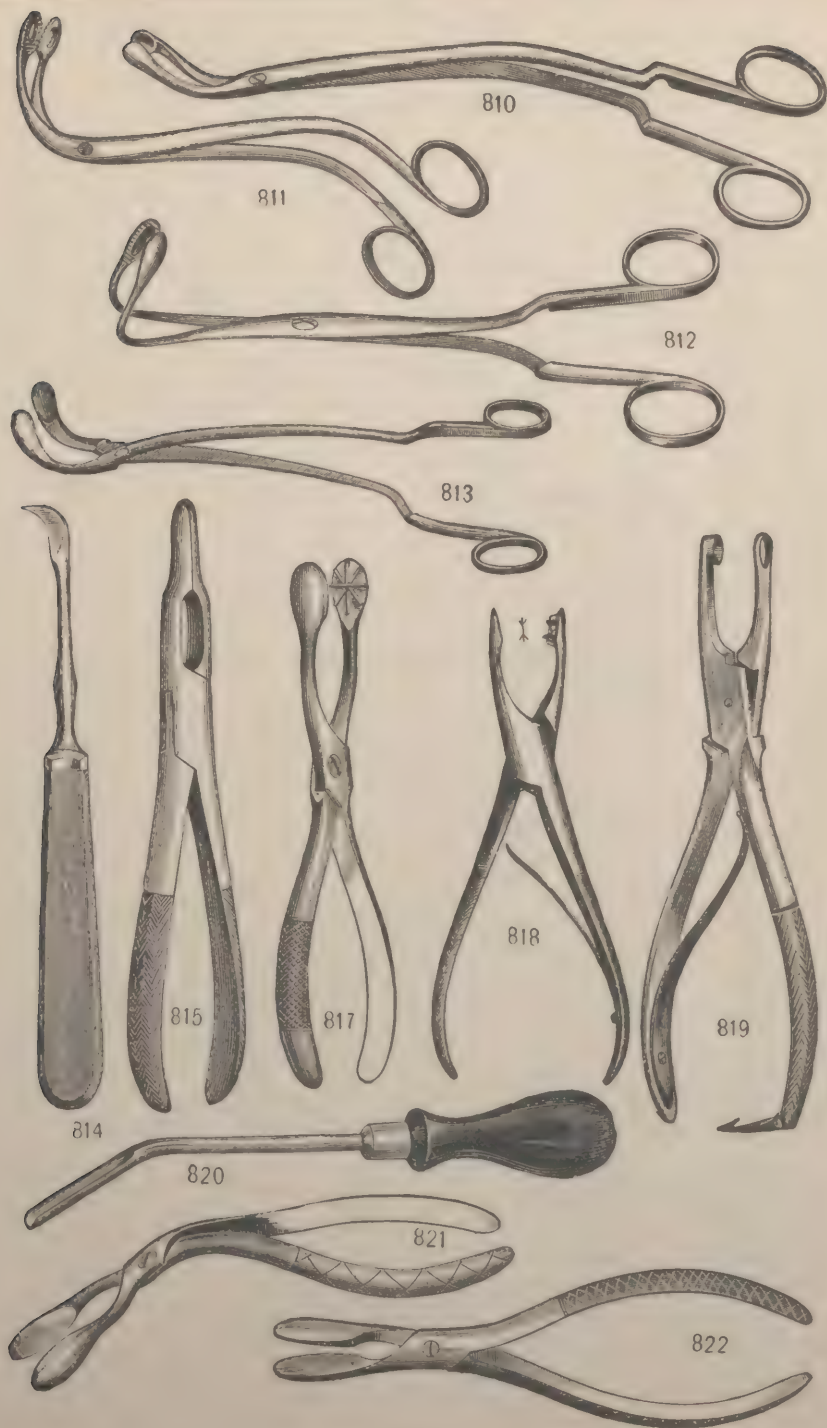


No. 788.

788.	McKenzie's Snare, . . . . .	6 00
789.	Sajous' Modification of Jarvis Snare, 2 tubes, . . . . .	2 50
790.	" Improved Snare, 3 tubes, . . . . .	6 50
791.	Ingals' Snare, 6 tubes, . . . . .	6 00
792.	Wright's Snare, . . . . .	7 00
793.	Brown's Ecchondrotome, . . . . .	10 00
794.	Bosworth's Nasal Clamp, . . . . .	1 85
795.	Buck's Nasal Curettes, 3 sizes, . . . . . each	75
796.	Curette Forceps, Noyes', . . . . .	4 00
797.	Nasal Saws, ebony handles, 3 styles, . . . . . each	1 25
798.	" " metal " " . . . . .	1 50
799.	Heyman's Nasal Curette Forceps, . . . . .	3 00
800.	Septum Scissors, . . . . .	1 75
801.	Prince's Nasal Membrane Forceps, . . . . .	2 50
802.	Nasal Saws, Buckland's, 2 blades, . . . . .	2 50

The boldface numbers represent instruments illustrated.





# C. H. GOLDTHWAITE & CO.,

## NASAL INSTRUMENTS—Continued.

No. 806.		PRICE.
806.	Chisel, Vance's, 3 sizes, . . . . . each	\$1 00
810.	Loewenberg's Pharyngotome, . . . . .	3 75
811.	Cohen's Post Nasal Forceps, . . . . .	3 00
812.	Wagner's " " " . . . . .	2 75
813.	Stoerk's " " " . . . . .	3 00
814.	Septum Knife, Allen's, . . . . .	1 25
815.	Adams' Forceps, for septum, . . . . .	2 25
816.	Sajous' Septum Forceps, 5 punches, different styles, . . . per set	9 00
817.	Steel's " " . . . . .	2 75
818.	" " " . . . . .	3 00
819.	Roberts' " Punching Forceps, . . . . .	4 50
820.	Seiss' Septum Gouge, . . . . .	1 50
821.	Bosworth's Rhinoplastos Forceps, . . . . .	2 75
822.	Adams' " " . . . . .	2 25
823.	Webster's Aseptic Nasal Saw, interchangeable blades, . . . . .	3 50

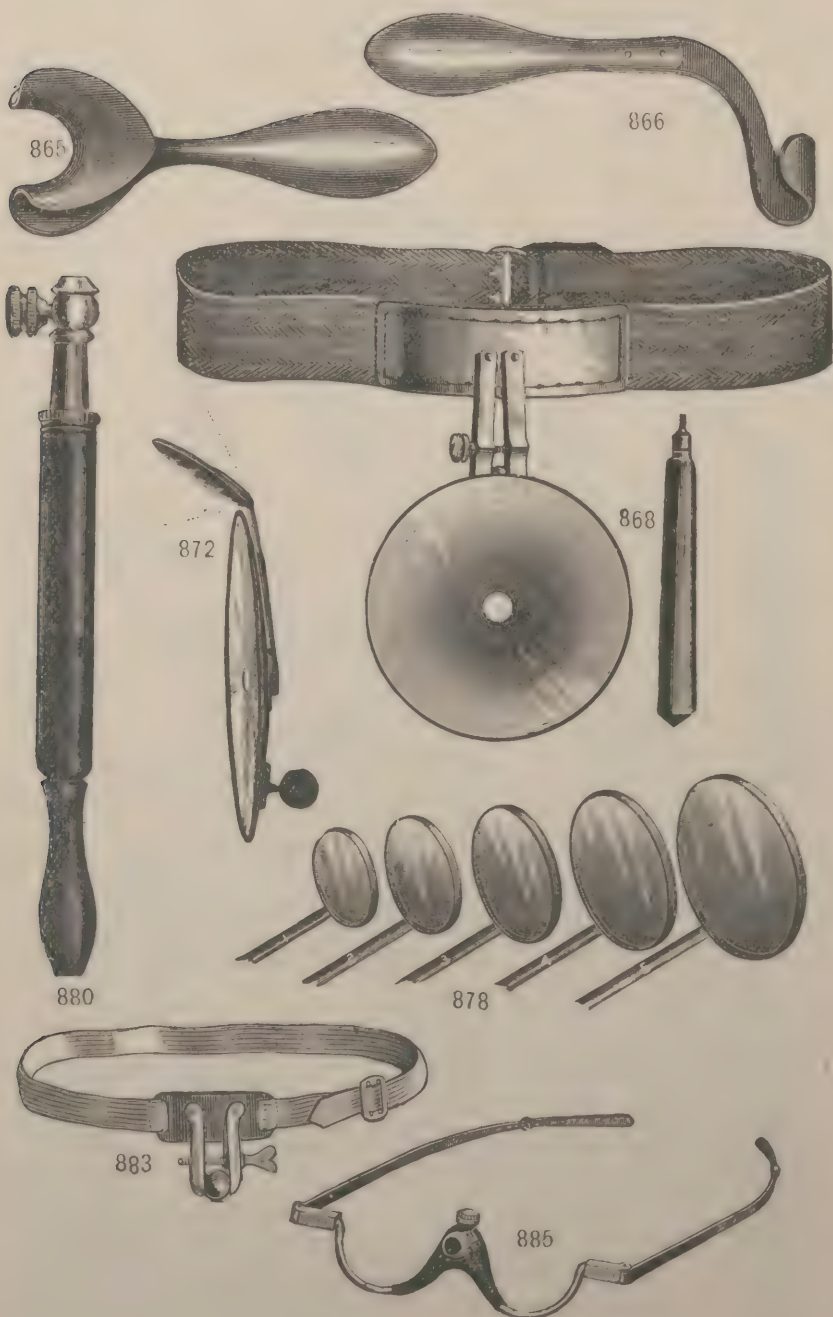
## MOUTH AND THROAT INSTRUMENTS.

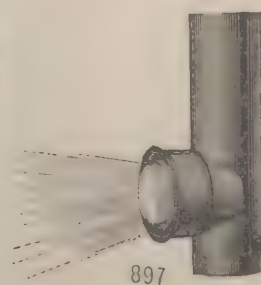
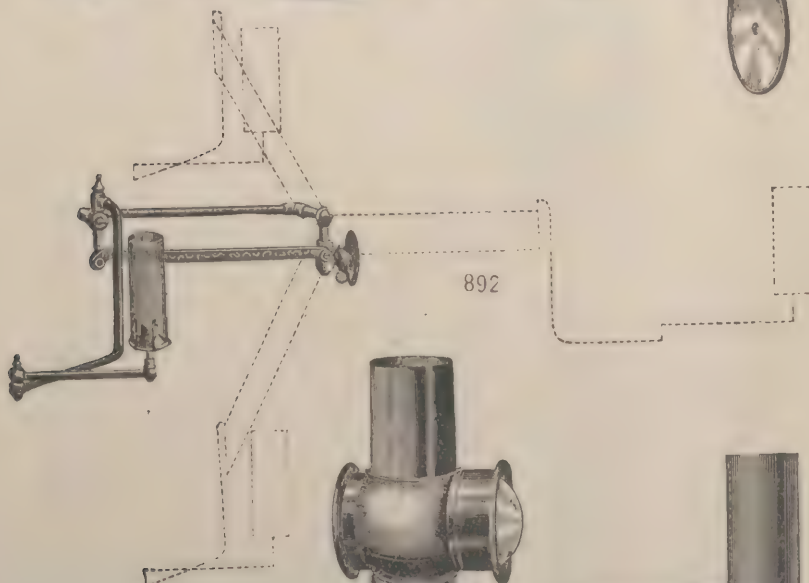
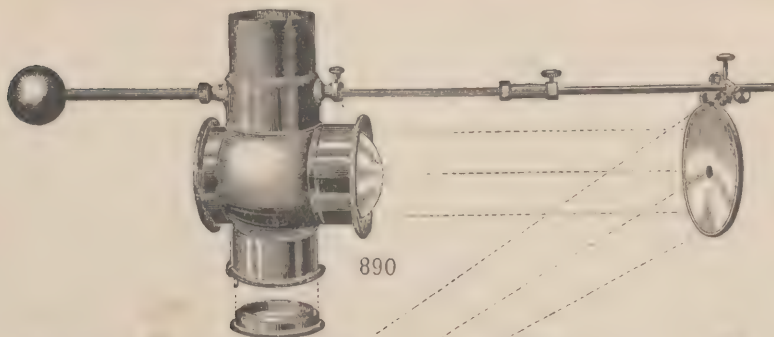
835.	Tongue Depressor, Bosworth's, . . . . .	1 00
836.	" " Goodwillie's, . . . . .	1 00
837.	" " small, hinged, . . . . .	50
838.	" " hard rubber, . . . . .	60
839.	" " Frankel's, . . . . .	1 25
840.	" " large, hinged, . . . . .	75
841.	" " De Vilbiss', . . . . .	35
842.	" " Green's folding, . . . . .	1 00
843.	" " Turck's, 3 blades, . . . . .	3 50
844.	" " Staman's self retaining, . . . . .	1 50
847.	Finger Protector, . . . . .	75
850.	Palate Retractor, White's, . . . . .	1 00
851.	" " Hinde's, . . . . .	75
852.	Mouth Specula, Erhardt's, 4 sizes, . . . . . each	1 00
853.	Mouth Gags, Mussey's, . . . . .	5 00
854.	" " Mason's improved, . . . . .	3 75
855.	" " Gross', . . . . .	3 75
856.	" " Goodwillie's, . . . . .	4 50
857.	" " O'Dwyer's (see Fig. 1046), . . . . .	4 00
858.	" Dilator, hard rubber, . . . . .	75
859.	" Gag, Denhardt's, . . . . .	4 00
860.	Tongue-holding Forceps, . . . . .	3 50

The boldface numbers represent instruments illustrated.





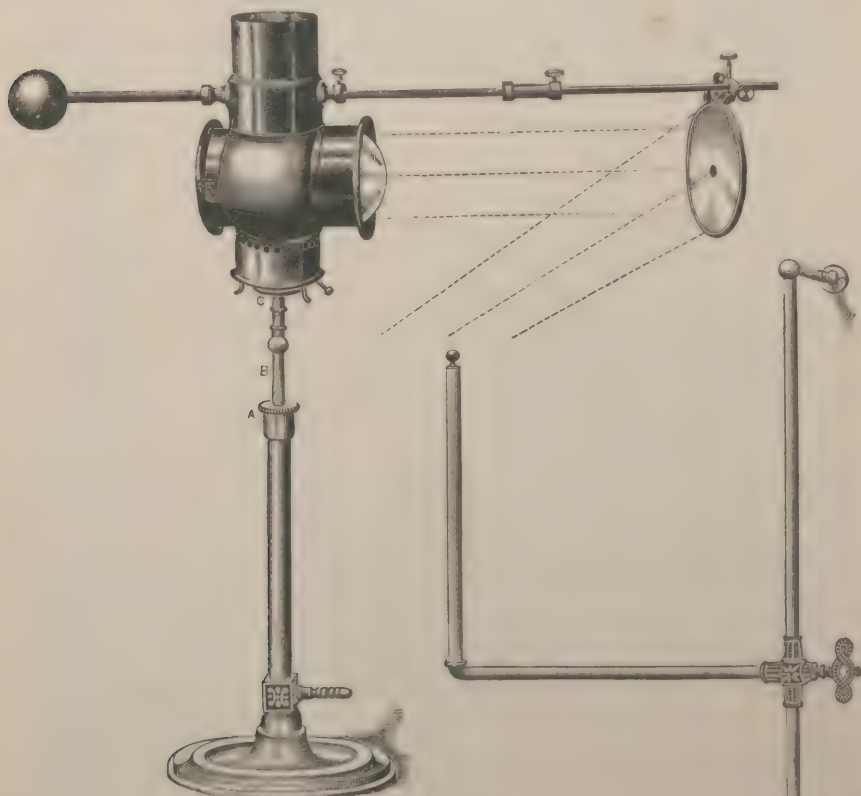




# C. H. GOLDTHWAITE & CO.,

## MOUTH AND THROAT INSTRUMENTS—Continued.

NO.		PRICE.
865.	Leuers' Cheek Retractor, . . . . .	\$1 60
866.	Cheek Retractor, right or left, . . . . . each	1 00
867.	Reflecting Mirror, with head-band, 3 in., . . . . .	3 25
868.	“ “ “ “ “ 3½ in., . . . . .	3 50
869.	“ “ “ “ “ 4 in., . . . . .	4 00
870.	Head-Band, with nose rest, . . . . . extra,	50
871.	Keen's Re-Reflecting Mirror, with head-band, 3 in., . . . . .	5 00
872.	“ “ “ “ “ 3½ in., . . . . .	5 35
873.	“ “ “ “ “ 4 in., . . . . .	5 75



No. 899.

No. 900.

877.	Laryngoscopic Mirror, with handle, 5 sizes, . . . . . each	60
878.	“ “ “ without handle, 5 sizes (cuts full sizes), “	50.
880.	Universal Handle, rubber, . . . . .	50
881.	“ “ “ metal, . . . . .	50

The boldface numbers represent instruments illustrated.



## MOUTH AND THROAT INSTRUMENTS—Continued.

NO.	PRICE.
883. Bosworth's Head-Band; . . . . .	\$1 00
885. Fox's " " spectacle frame, . . . . .	4 00
886. Simrock's " " . . . . .	3 00
890. Improved Mackenzie's Condenser, with arm for holding mirror, without mirror, . . . . .	7 50
891. Arm for Holding Mirror, but without mirror, . . . . .	2 50
892. Ivins' Gas Bracket, . . . . .	8 00
893. Improved Adjustable Gas Bracket, lacquered, . . . . .	7 00
894. " " " " nickel-plated, . . . . .	7 50
895. Laryngoscope, Tobold's, with lamp, . . . . .	20 00
896. Improved Mackenzie's Condenser, . . . . .	4 50
897. Mackenzie's Condenser, . . . . .	4 00
898. Student's Lamp, with glass reservoir, . . . . .	4 50
899. Gas Stand, nickel-plated, with tube and burner, but without con- denser, arm, or mirror, . . . . .	8 00
900. Wall Bracket, for student's lamp, nickel-plated, . . . . .	3 50

## LARYNGOSCOPIC SETS.

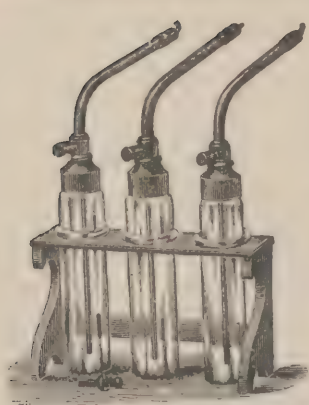
903. Goodwillie's Case, contains 1  $3\frac{1}{2}$ -inch Mirror with head-band, 2 Laryngeal Mirrors, 1 Universal Handle, 1 Goodwillie's Nasal Speculum, 1 Goodwillie's Tongue Depressor; in leather covered case, velvet-lined, . . . . . 8 00
904. Case, contains 1  $3\frac{1}{2}$ -inch Mirror with head-band, 3 Laryngeal Mirrors, 1 Universal Handle, 1 Goodwillie's Nasal Speculum, 1 Goodwillie's Tongue Depressor, 1 set of Hard Rubber Ear Specula, 1 Aluminum Applicator; in leather-covered, velvet-lined case, . . . . . 10 00
905. Case, contains 1  $3\frac{1}{2}$ -inch Mirror with head-band, 5 Laryngeal Mirrors with handles, 1 Goodwillie's Nasal Speculum (3 blades), 1 Hinged Tongue Depressor; in leather case, . . . . . 10 50



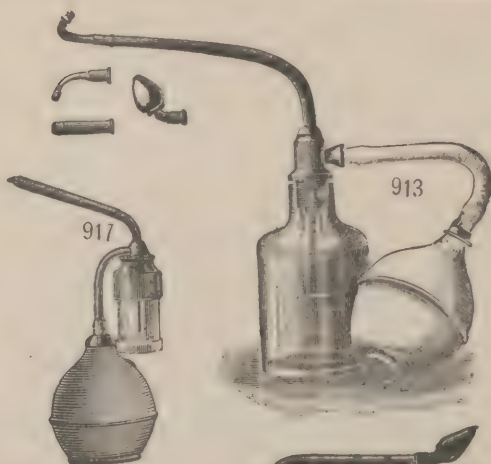
No. 906.

906. Ivins' Case, contains 1  $3\frac{1}{2}$ -inch Mirror with head band, 3 Laryngeal Mirrors (Nos. 1, 3 and 5), 1 Laryngeal Mirror (No. 3, marked S), 2 Universal Handles, 1 Ivins' Nasal Speculum (self-retaining), 1 set of Toynbee's Ear Specula, 1 Hinged Tongue Depressor, 1 Laryngeal Applicator, 1 Post-Nasal Applicator, 1 Nasal Applicator; in leather-covered, velvet-lined case, . . . . . 11 00

The boldface numbers represent instruments illustrated.



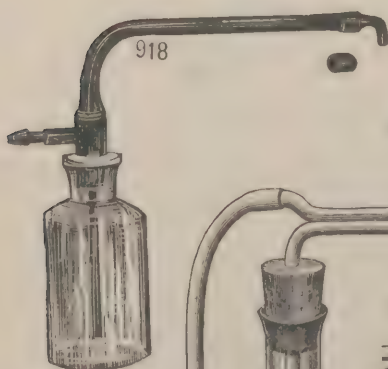
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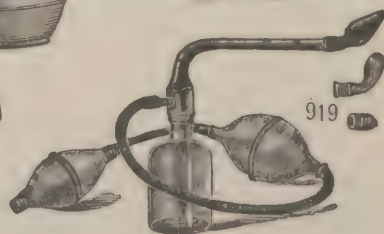
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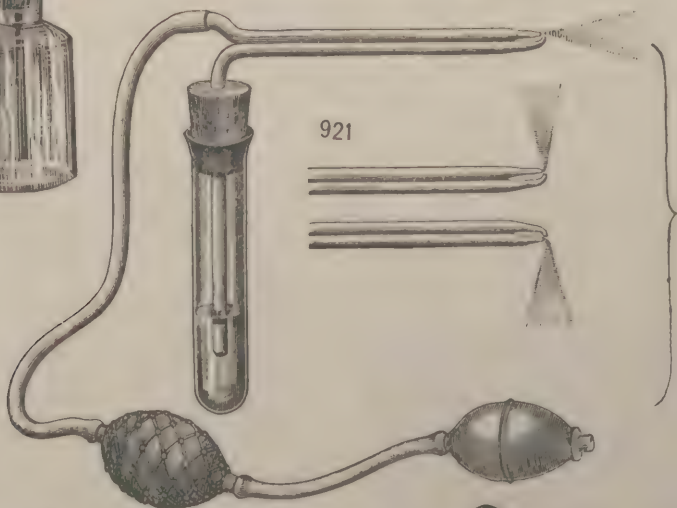
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918



919



921



929



927



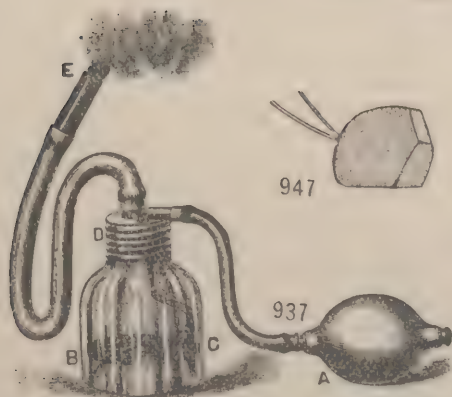
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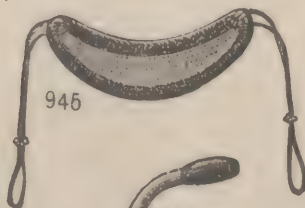
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935



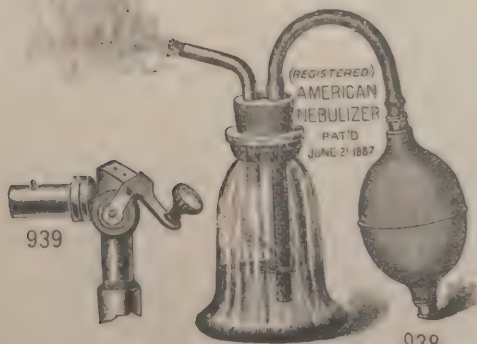
937



945



949



938



939

# C. H. GOLDTHWAITE & CO.,

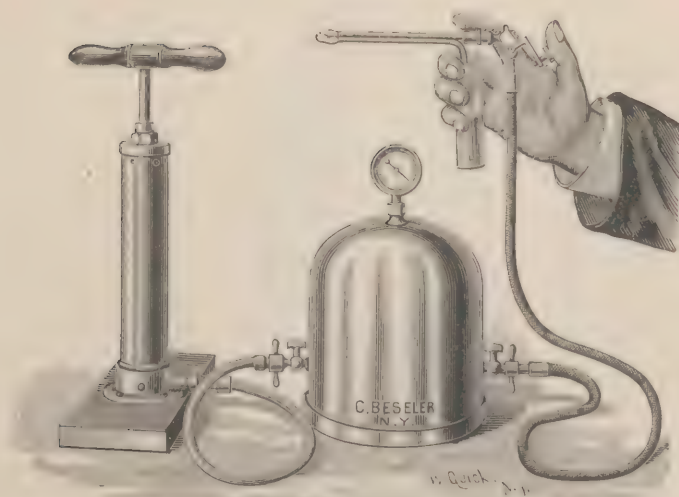
## ATOMIZERS, ETC.

NO.		PRICE.
910.	Hard Rubber Atomizer, with 3 caps, tipped with platinum to prevent corrosion in applying acids, with bulb, . . . . .	\$4 25
911.	3 Hard Rubber Atomizers, with 3 caps, tipped with platinum, without bulbs, . . . . .	3 50
912.	Hard Rubber Atomizer, with 9 caps (3 for each), tipped with platinum, in hard-wood racks, without bulbs, . . . . .	5 00
Numbers 911 and 912 are made especially for the use of physicians in connection with the air compressor, but if desired can be used with the hand bulb.		
913.	Hard Rubber Atomizer, with changeable tips, single bulb, . . .	1 50
914.	" " " " double " . . .	2 00
915.	Gilbert's Continuous Spray Atomizer, with tongue depressor and adjustable tips, hard rubber, . . . . .	2 00
916.	Eclipse Atomizer, . . . . .	1 25
917.	Cocaine " . . . . .	1 00
918.	Hard Rubber Atomizer, 2 tips, single bulb, . . . . .	1 10
919.	" " " with 3 tips and double bulb, . . . . .	2 25
920.	" " " straight tube, single " . . . . .	1 00
921.	Sass' Spray, glass, double bulb, one tube, . . . . .	2 25
922.	" " Tube, glass, . . . . .	1 00
923.	" " hard rubber, double bulb, with one tube, . . . . .	3 00
924.	" " Tube, hard rubber, . . . . .	2 00
925.	Double Bulb for atomizers, . . . . .	1 00
926.	Single " " " . . . . .	40
927.	De Vilbiss' Atomizer, elevated cup, for oily solutions, . . . . .	1 75
928.	" " depressed " " watery " . . . . .	1 75
929.	Davidson's Cut-off, . . . . .	1 00
931.	Philadelphia Atomizer, style 1, upward spray, . . . . .	80
	" " " 2, downward spray, . . . . .	80
	" " " 3, straight spray, . . . . .	80
932.	Steam Atomizer, Philadelphia, . . . . .	3 75
933.	" " Acme, . . . . .	2 00
935.	Ointment Atomizer, Wadsworth's, . . . . .	1 00
936.	Oliver's Vaporizer, glass tube, . . . . .	1 50
937.	" " hard rubber, . . . . .	3 25
938.	American Nebulizer, rubber tube, . . . . .	1 50
939.	Automatic Cut-off, . . . . .	3 50
945.	Respirator, Jeffrey's, for mouth, . . . . .	1 00
946.	" " " " and nose, . . . . .	1 50
947.	Zinc Respirator, . . . . .	25
948.	Inhaling Tube, Fitch's improved, silver, . . . . .	1 75
949.	W. & T. Inhaler, . . . . .	1 00

The boldface numbers represent instruments illustrated.



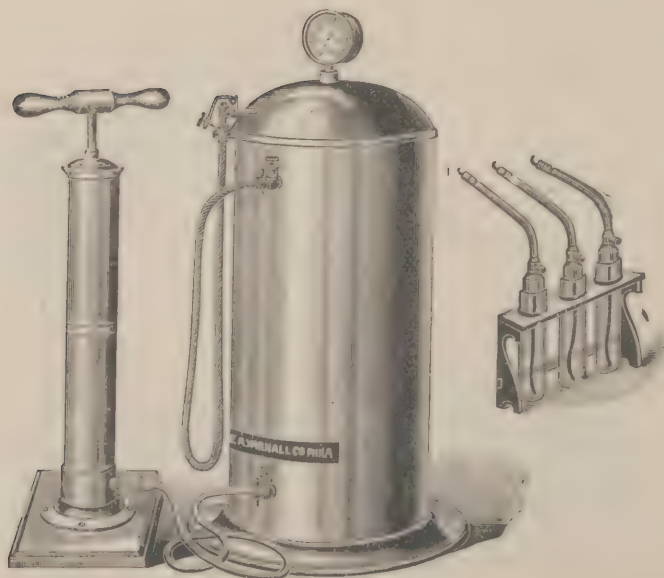
186 WASHINGTON ST., BOSTON.



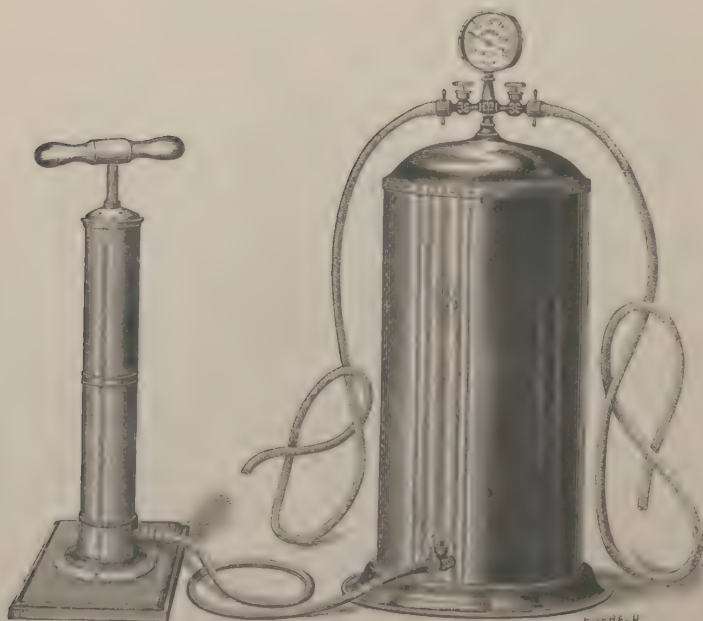
No. 955.



No. 956.



No. 957.



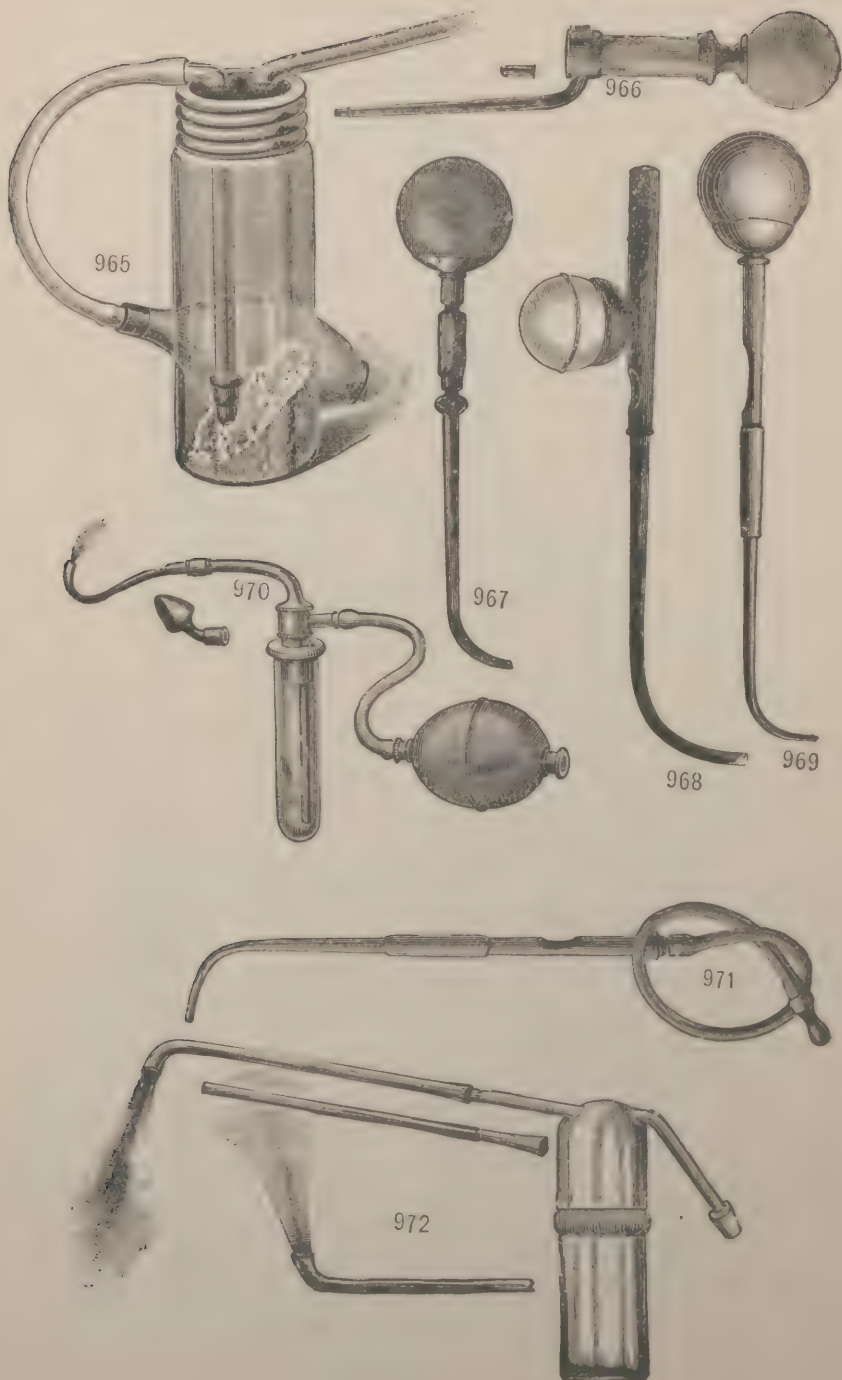
No. 958.

# 186 WASHINGTON ST., BOSTON.

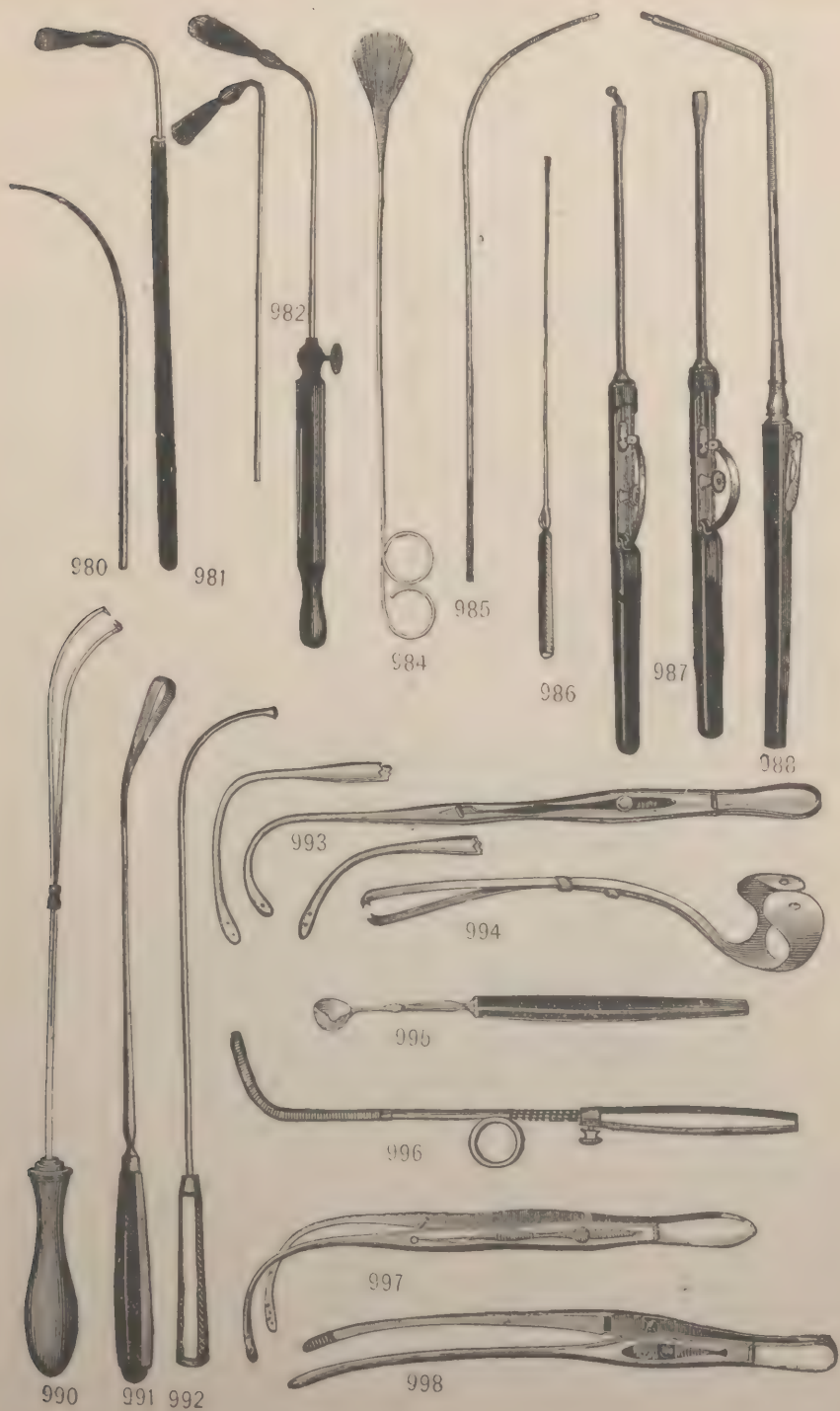
## AIR COMPRESSORS, INSUFFLATORS, ETC.

NO.		PRICE.
955.	Beseler's Air Compressor and Pump, without atomizer, . . . .	\$30 00
956.	Burgess' " " " " combined, . . . . .	25 00
957.	Air Compressor, with pump, nickel-plated, with atomizers, . . .	30 00
958.	" " " " 2 outlets, " " . . . .	33 00
959.	Oscillating Air Pump, . . . . .	35 00
960.	" " " with double wheel, . . . . .	50 00
961.	Cohen-Richardson Air Compressor, . . . . .	15 00
965.	Insufflator, glass, W. & T., . . . . .	75
966.	Davidson's Powder Blower, . . . . .	1 50
967.	Insufflator, with scoop, . . . . .	75
968.	" Lefferts', . . . . .	1 25
969.	" Clay's, . . . . .	75
970.	" with bottle, hard rubber tubes, Lefferts', . . . . .	1 50
971.	" " mouth-piece, . . . . .	65
972.	" De Vilbiss', . . . . .	1 25
980.	Applicator, Ivins', without handle, . . . . .	35
981.	Mackensie's Throat Brush, ebony handle, . . . . .	50
982.	1 set of 2 Throat Brushes, adjustable handle, . . . . .	1 00
983.	Brush Holder, with half dozen camel's hair brushes, . . . . .	1 25
984.	Camel's-hair Brush, with wire handle, . . . . .	25
985.	Applicator, aluminum, without handle, . . . . .	15
986.	" " with " . . . . .	25
987.	Sajous' Acid Applicator, . . . . .	4 00
988.	MacCoy's Caustic Applicator, . . . . .	2 50
989.	Baily's Acid " . . . . .	1 50
990.	Cotton and Sponge Holder, with slide catch, . . . . .	50
991.	Bosworth's Laryngeal Curette, with flexible stem, . . . . .	2 00
992.	Lente's Caustic Probe, . . . . .	85
993.	Cohen's Sponge Forceps, 3 different curves, . . . . . each	2 50
994.	Finger Sponge Holder, . . . . .	1 00
995.	Platinum Ladle, 3 sizes, . . . . . each	3 50
996.	Laryngeal Caustic Carrier, concealed, . . . . .	1 50
997.	Sajous' Applying Forceps, laryngeal or post-nasal, . . . each	2 75
998.	" Pharyngeal " . . . . .	2 50
999.	Cohen's " " . . . . .	1 85
1005.	Green's Tonsil Bistoury, . . . . .	1 25
1006.	Uvula Scissors, plain, . . . . .	2 00
1007.	Volcellum Forceps, . . . . .	1 85
1008.	Uvula Scissors, with claws, . . . . .	3 75
1009.	" " Seiler's, . . . . .	4 50

The boldface numbers represent instruments illustrated.



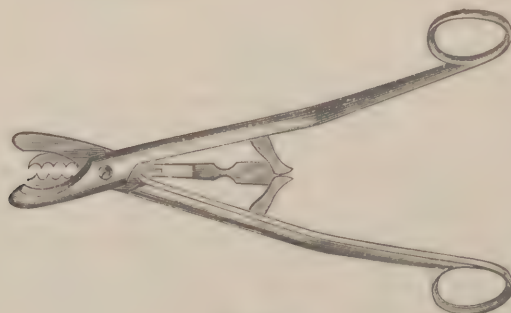




# C. H. GOLDTHWAITE & CO.,

## TONSILOTOMES, ETC.

NO.		PRICE.
<b>1010.</b>	Uvula Scissors, Sajous', . . . . .	\$6 00
<b>1011.</b>	" Hook, Roe's, . . . . .	1 25
<b>1012.</b>	" " Czermack's, . . . . .	2 00



**No. 1010.**

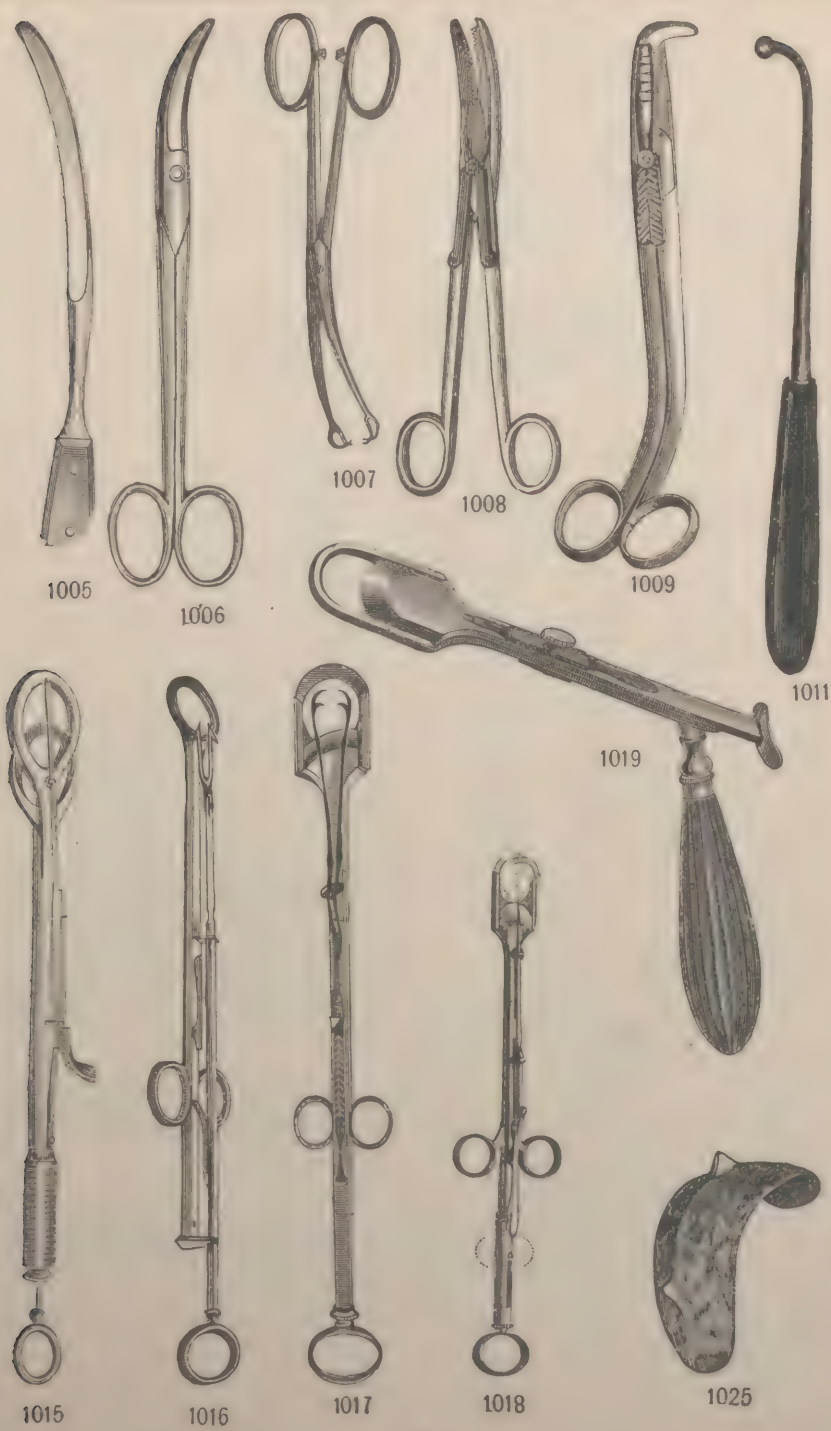
<b>1015.</b>	Tonsilotome, Fahnestock's, improved, . . . . .	4 00
<b>1016.</b>	" Mathieu's, . . . . .	7 00
<b>1017.</b>	" Billings', . . . . .	7 00
<b>1018.</b>	" Ivins', . . . . .	8 00
<b>1019.</b>	" Mackenzie's, . . . . .	7 50
<b>1020.</b>	" Sajous', in case, 3 blades, . . . . .	20 00
<b>1021.</b>	" " single, . . . . .	7 00
<b>1025.</b>	Inhibitor, Fisher's, to prevent mouth breathing, . . . . .	2 00



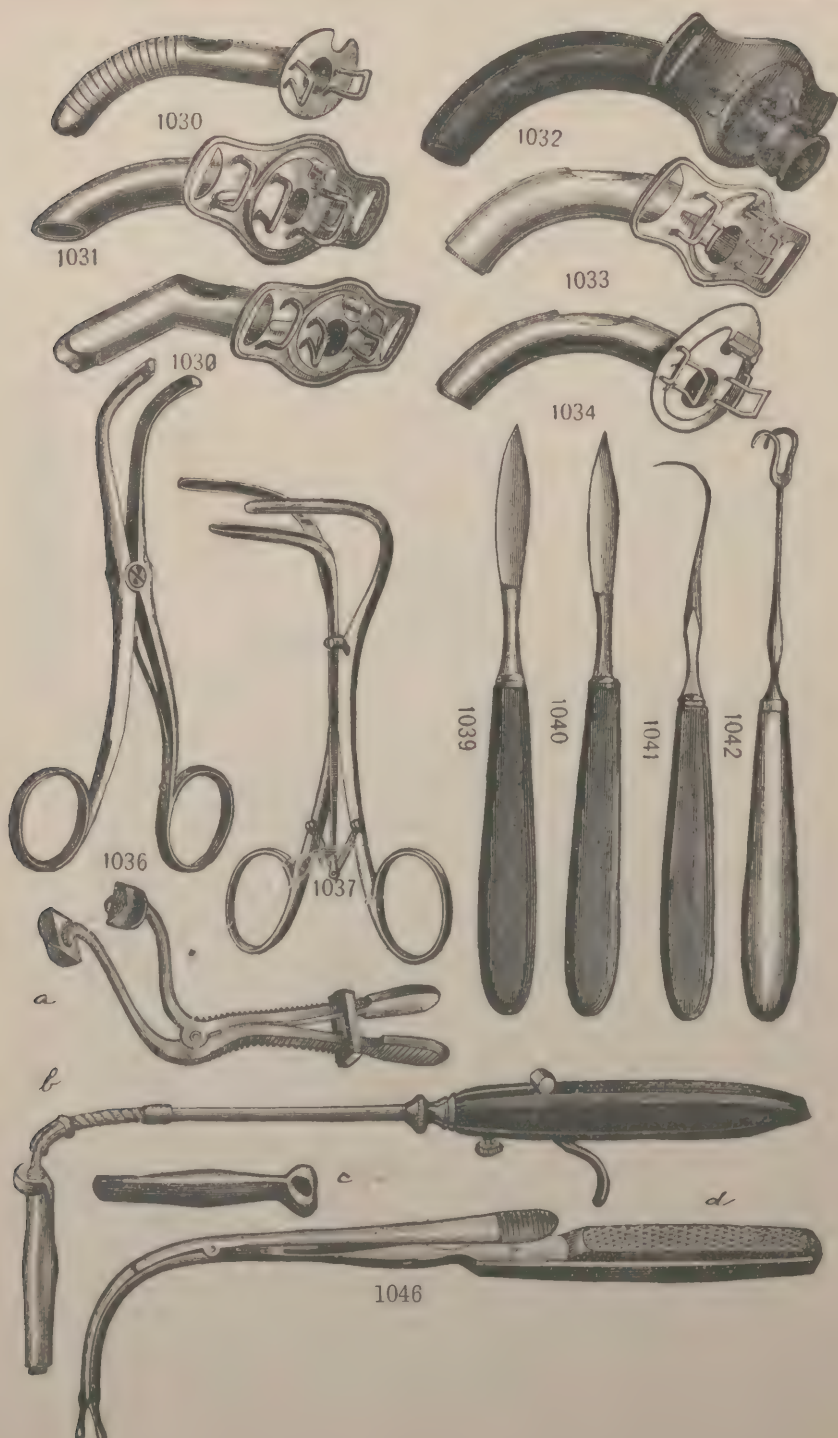
**No. 1020.**

<b>1030.</b>	Trachea Tube, Keene's, silver, . . . . .	5 00
<b>1031.</b>	" " Little's, aluminum, . . . . .	3 00
<b>1032.</b>	" " hard rubber, double, 5 sizes, . . . . . each	1 25
<b>1033.</b>	" " double, silver, 5 sizes, movable plate, . . . . .	4 50
<b>1034.</b>	" " single, 5 sizes, silver, plain, . . . . .	1 50
<b>1035.</b>	" " double, 5 " silver plated, . . . . .	2 75

The boldface numbers represent instruments illustrated.



C. H. GOLDTHWAITE & CO.,



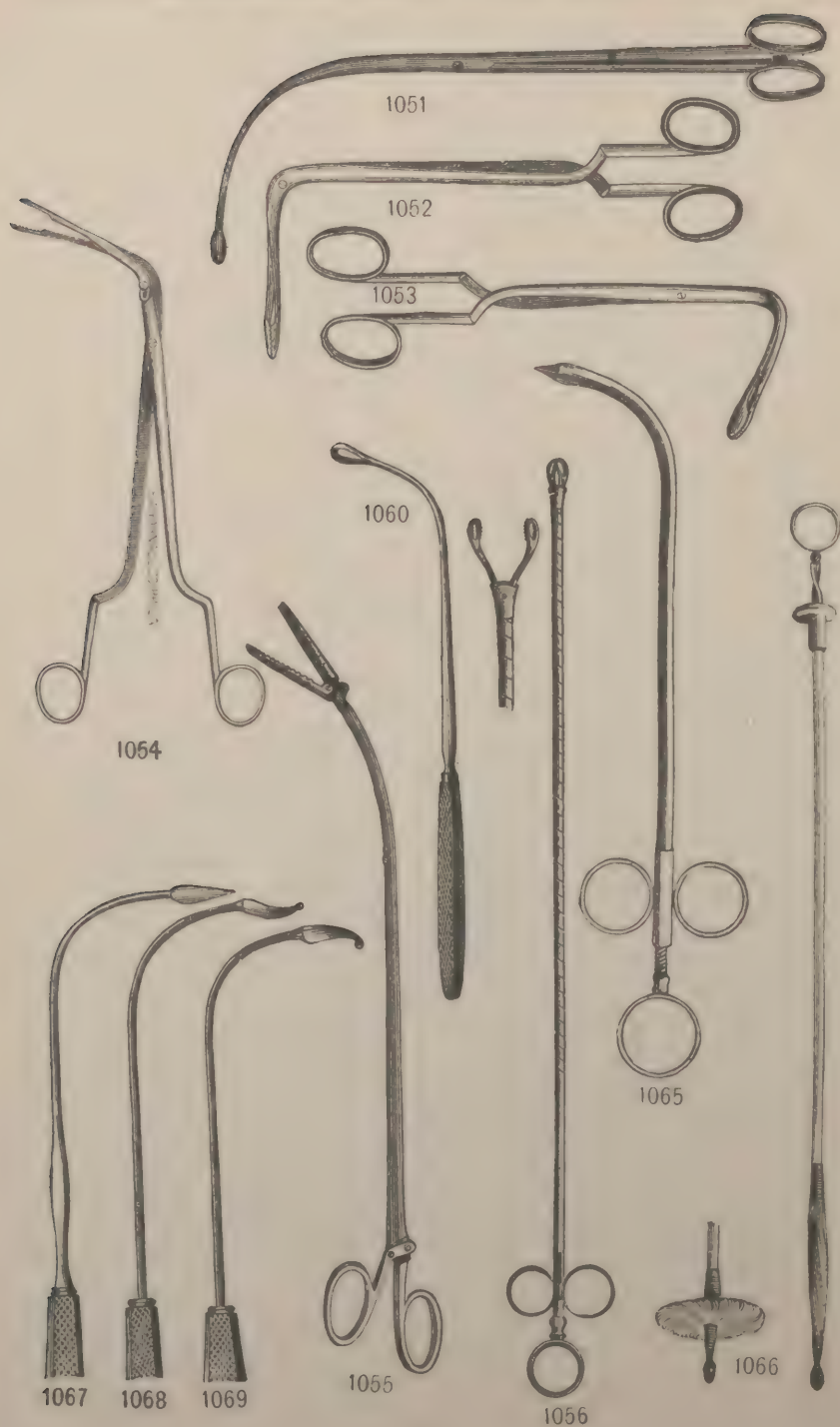


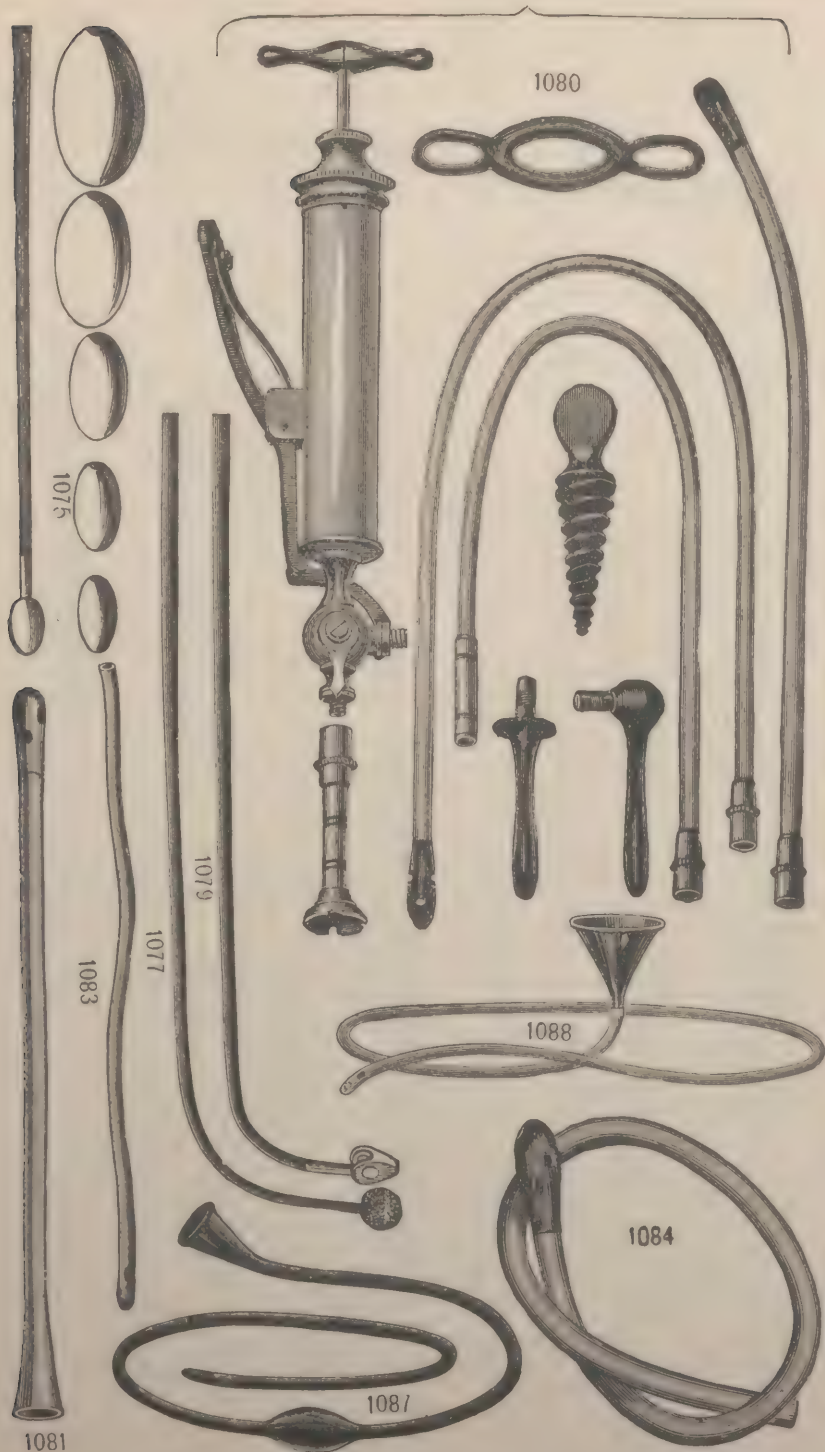
# 186 WASHINGTON ST., BOSTON.

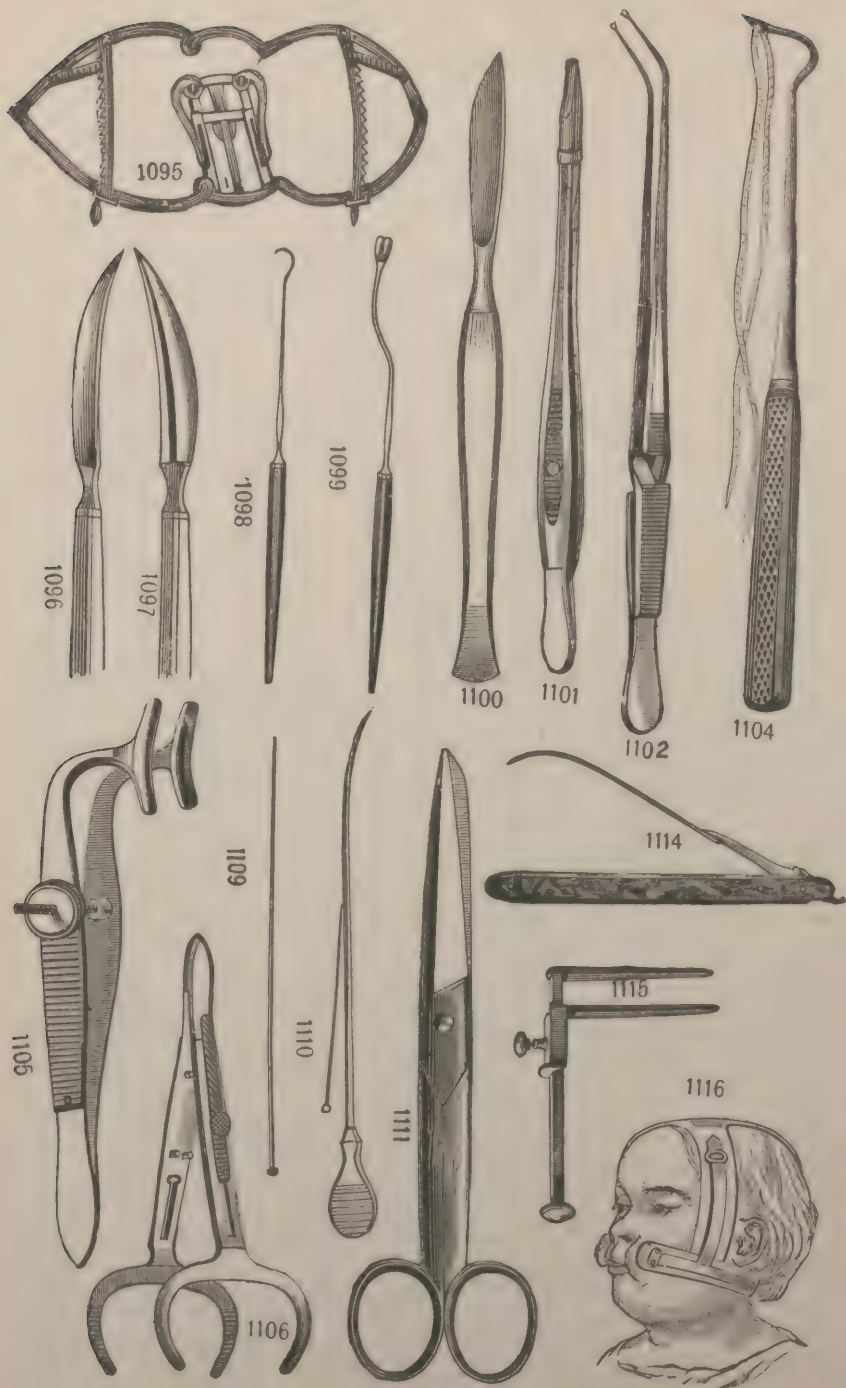
## THROAT INSTRUMENTS, ETC.

NO.		PRICE.
<b>1036.</b>	Trachea Dilator, Trousseau's, . . . . .	\$1 75
<b>1037.</b>	“ “ Delaborde's, . . . . .	3 75
<i>1038.</i>	“ “ Elsberg's, . . . . .	1 85
<b>1039.</b>	Tracheotomy Scalpel, sharp point, . . . . .	1 00
<b>1040.</b>	“ “ probe “ . . . . .	1 00
<b>1041.</b>	“ “ Hook, . . . . .	1 00
<b>1042.</b>	“ “ Retractor, Pelcher's, . . . . .	1 50
<i>1043.</i>	“ “ Minor's, . . . . .	3 50
<b>1046.</b>	O'Dwyer's Intubation Set, consisting of A, O'Dwyer's Mouth Gag; B, Introducer; C, Tubes, 6 sizes; D, Extractor; E, Scale, in case, . . . . . per set	25 00
<i>1050.</i>	Throat Forceps, Buck's, . . . . .	2 00
<b>1051.</b>	“ “ Fauvel's, . . . . .	3 00
<b>1052.</b>	“ “ Mackenzie's antero-posterior, . . . . .	2 75
<b>1053.</b>	“ “ Mackenzie's lateral, . . . . .	2 75
<b>1054.</b>	“ “ Waxham's-Cusco's, . . . . .	3 50
<b>1055.</b>	“ “ Mathieu's, . . . . .	4 50
<b>1056.</b>	“ “ spiral, flexible, . . . . .	3 50
<b>1060.</b>	Curette, metal handle, . . . . .	1 00
<i>1062.</i>	Finger Curette, . . . . .	1 25
<b>1065.</b>	Tobold's Concealed Lancet, . . . . .	3 00
<b>1066.</b>	Bristle Probang, . . . . .	1 25
<b>1067.</b>	Tobold's Laryngeal Knife, spear point, . . . . .	1 25
<b>1068.</b>	“ “ “ probe point curved up, . . . . .	1 25
<b>1069.</b>	“ “ “ “ “ down, . . . . .	1 25
<i>1070.</i>	Esophageal Bougies, elastic, . . . . .	1 50
<b>1075.</b>	“ Dilators, whalebone stem, with 6 H. R. bulbs, . . . . .	3 00
<b>1077.</b>	Sponge Probang, whalebone, . . . . .	35
<i>1078.</i>	Swivel “ “ 3 parts to screw, . . . . .	2 50
<b>1079.</b>	“ “ “ . . . . .	1 50
<b>1080.</b>	Lever Stomach Pump, . . . . .	12 00
<b>1081.</b>	Feeding Tube, English, . . . . .	1 00
<i>1082.</i>	“ “ Belfast linen, . . . . .	1 50
<b>1083.</b>	Paine's Nasal Feeding Tube, . . . . .	1 00
<b>1084.</b>	Stomach Tube, Belfast linen, . . . . .	1 50
<i>1085.</i>	“ “ English, . . . . .	1 00
<i>1086.</i>	“ “ silk, . . . . .	2 00
<b>1087.</b>	“ “ soft rubber, with bulb and funnel, . . . . .	1 50
<b>1088.</b>	Lavage Apparatus, with soft rubber tube, 3 feet rubber tubing, and funnel, . . . . .	2 75
<i>1089.</i>	Stomach Tube, with aspirator attachment, . . . . .	5 00
<i>1091.</i>	Esophageal Forceps, plain, . . . . .	1 50
<i>1092.</i>	“ “ Bond's, . . . . .	2 25

The boldface numbers represent instruments illustrated.









**STAPHYLORRHAPHY AND HARELIP INSTRUMENTS.**

NO.		PRICE.
<b>1094.</b>	Coomes's Staphylorrhaphy Needles, 3 different curves, . . . each	\$1 00
<b>1095.</b>	Whitehead's Mouth Gag, . . . . .	7 50
<b>1096.</b>	Staphylorrhaphy Knife, curved right or left, . . . . . each	1 25
<b>1097.</b>	“ “ double edge, . . . . .	1 75
<b>1098.</b>	Sims' Tenaculum, . . . . .	85
<b>1099.</b>	“ Wire Adjuster, . . . . .	1 00
<b>1100.</b>	Scalpel, . . . . .	1 00
<b>1101.</b>	Sims' Wire-twisting Forceps, . . . . .	2 75
<b>1102.</b>	Angular Seizing Forceps, . . . . .	1 75

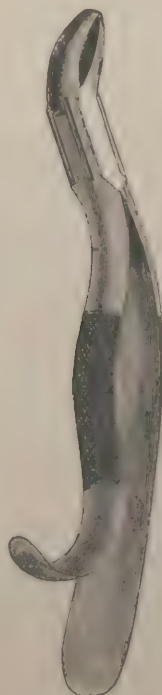
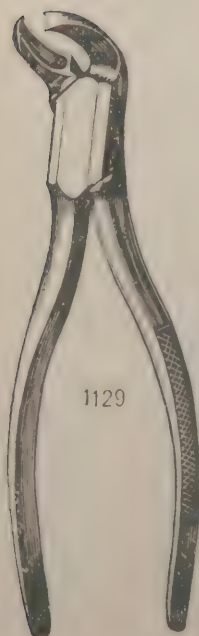
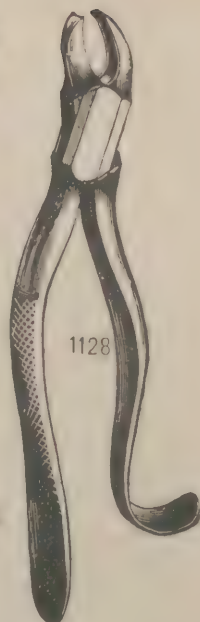
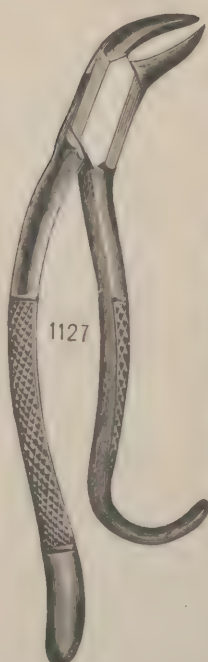
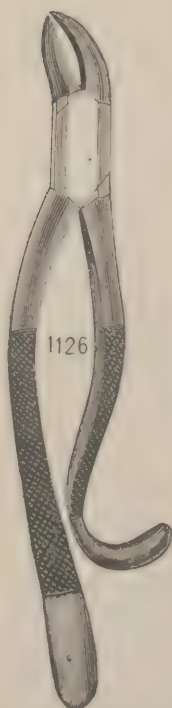
**No. 1094.**

<b>1104.</b>	Spiral Needle for Sutures, . . . . .	1 25
<b>1105.</b>	Hutchison's Harelip Forceps, . . . . .	2 25
<b>1106.</b>	Smith's “ “ . . . . .	3 75
<b>1109.</b>	Plastic Pins, . . . . . per dozen	20
<b>1110.</b>	Post's Pin-carrier, . . . . .	75
<b>1111.</b>	Scissors, straight, . . . . .	75
<b>1112.</b>	“ angular, . . . . .	1 00
<b>1113.</b>	“ curved on flat, . . . . .	1 00
<b>1114.</b>	Buck's Pin-carrier, . . . . .	1 25
<b>1115.</b>	Clamp, Prince's, . . . . .	2 25
<b>1116.</b>	Hainsby's Harelip Truss, . . . . .	4 50
<b>1117.</b>	Cannulated Pin, with silver cannula, . . . . .	40
<b>1118.</b>	Harelip Pins, . . . . . per dozen	50

**DENTAL INSTRUMENTS.—TOOTH FORCEPS.**

<b>1125.</b>	Incisor, upper, . . . . .	1 50
<b>1126.</b>	“ lower or bicuspid, . . . . .	1 50
<b>1127.</b>	Bicuspid, lower, . . . . .	1 50
<b>1128.</b>	“ upper, . . . . .	1 50
<b>1129.</b>	Molar, lower, right or left, . . . . . each	1 50
<b>1130.</b>	“ upper, “ “ “ Harris, . . . . . “	1 50
<b>1131.</b>	“ “ bayonet, . . . . .	1 50
<b>1132.</b>	“ “ either side, . . . . .	1 50
<b>1133.</b>	“ “ “ “ cowhorn, . . . . .	1 50
<b>1134.</b>	“ lower, right or left, . . . . . each	1 50
<b>1135.</b>	“ “ either side, cowhorn, . . . . .	1 50
<b>1136.</b>	Root, straight, . . . . .	1 50
<b>1137.</b>	“ upper and lower, half curved, . . . . .	1 50
<b>1138.</b>	“ lower, . . . . .	1 50
<b>1139.</b>	“ universal, . . . . .	1 50

The boldface numbers represent instruments illustrated.





1132



1133



1134



1135



1136



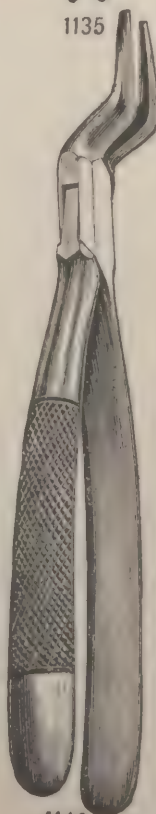
1137



1138



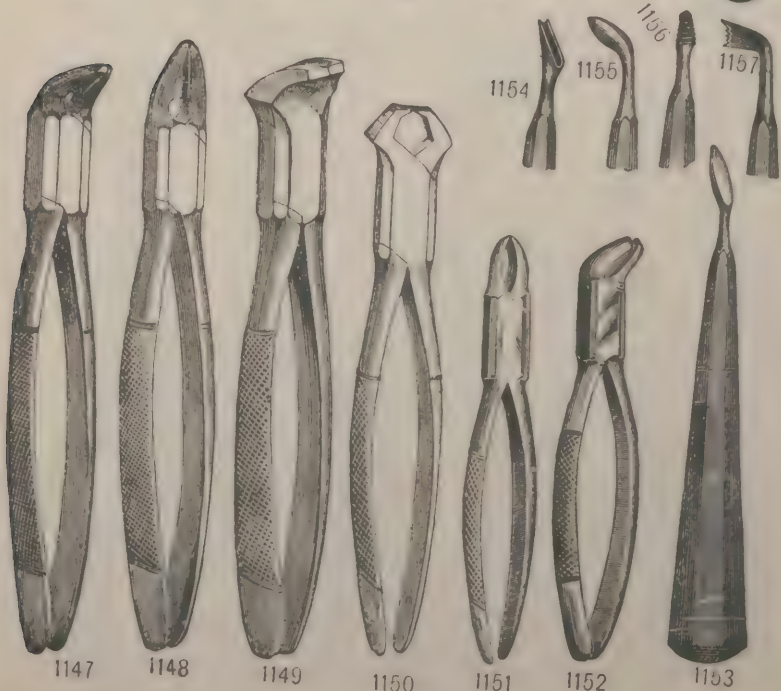
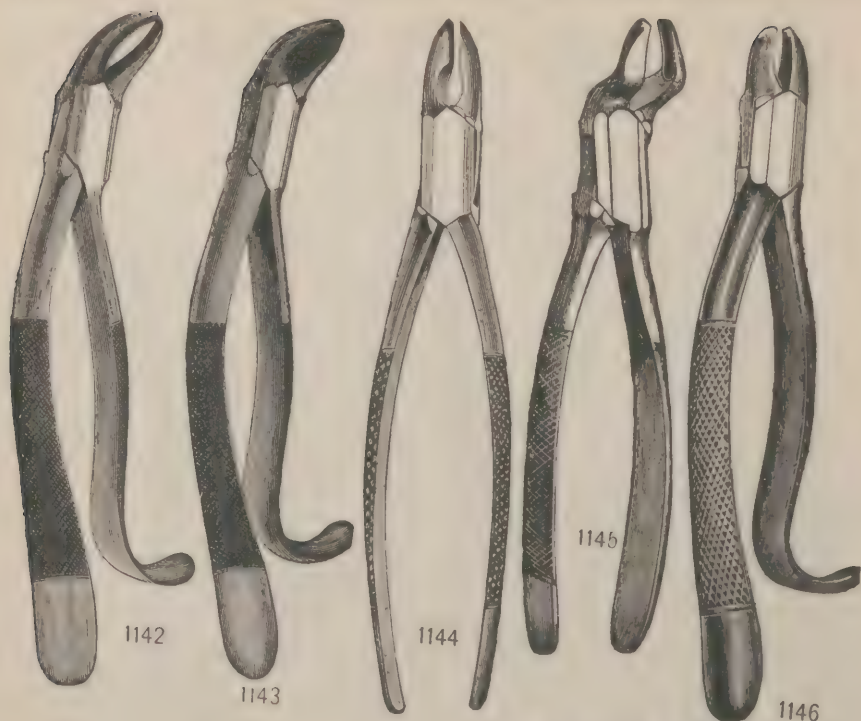
1139



1140



1141





## DENTAL INSTRUMENTS.—TOOTH FORCEPS—Continued.

NO.	PRICE.
1140. Root, bayonet shape, for difficult roots in the upper jaw and lower front,	\$1 50
1141. Molar Safety, lower, either side,	I 50
1142. Alveola, long beak,	I 50
1143. " curved beak,	I 50
1144. " straight,	I 50
1145. " bayonet shape,	I 50
1146. Straight Incisors, hooked handle,	I 50
1147. Curved, narrow beak for crowded teeth,	I 50
1148. Straight, " " " "	I 50
1149. Excising, lower,	I 50
1150. " upper,	I 50
1151. Straight, for children's teeth,	I 50
1152. Curved, " " "	I 50
1153. Root Elevator,	I 00
1154. Elevator,	I 00
1155. Gum Lancet,	I 00
1156. Screw,	I 00
1157. Angular Tooth Extractor,	I 00
1158. Gum Lancet, straight, ebony handle,	50
1159. " " for pocket case, metal handle,	I 00
1160. Abscess Syringe, 2 gold pipes in case,	3 50
1162. Leather Roll, chamois-lined case, 6 spaces,	I 50
1163. " " " " IO "	2 00
1164. Physician's Set, comprising 1 each No. 1132, Upper Molar for either side; No. 1129, Lower Molar for either side; No. 1139, Universal Root; No. 1125, Incisor; No. 1140, Root, bayonet shape, slender beak for difficult roots in the upper jaw and the lower front teeth, in leather roll case,	9 00

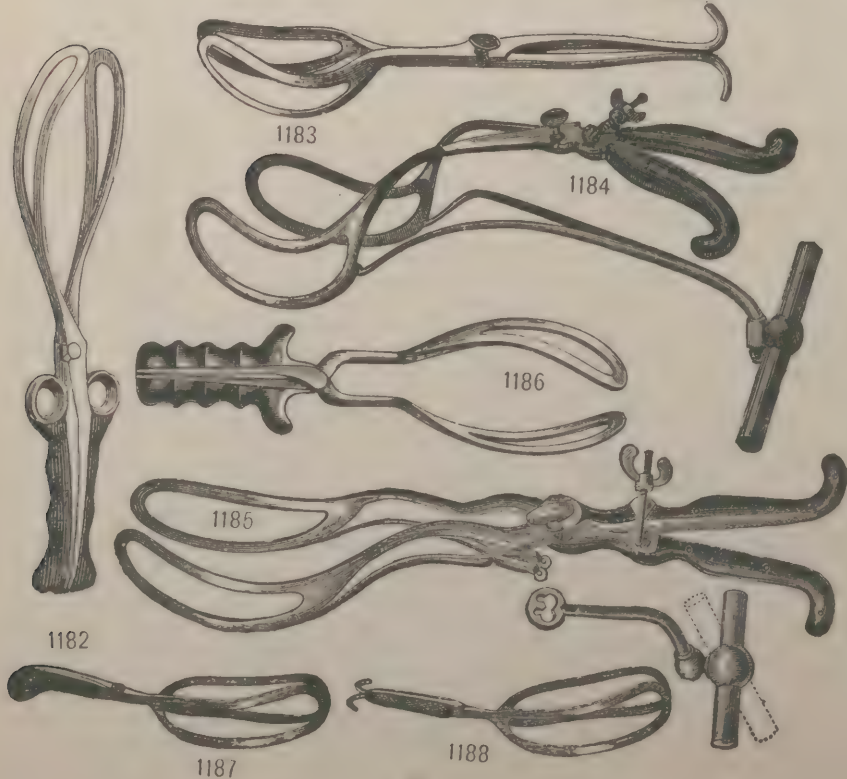
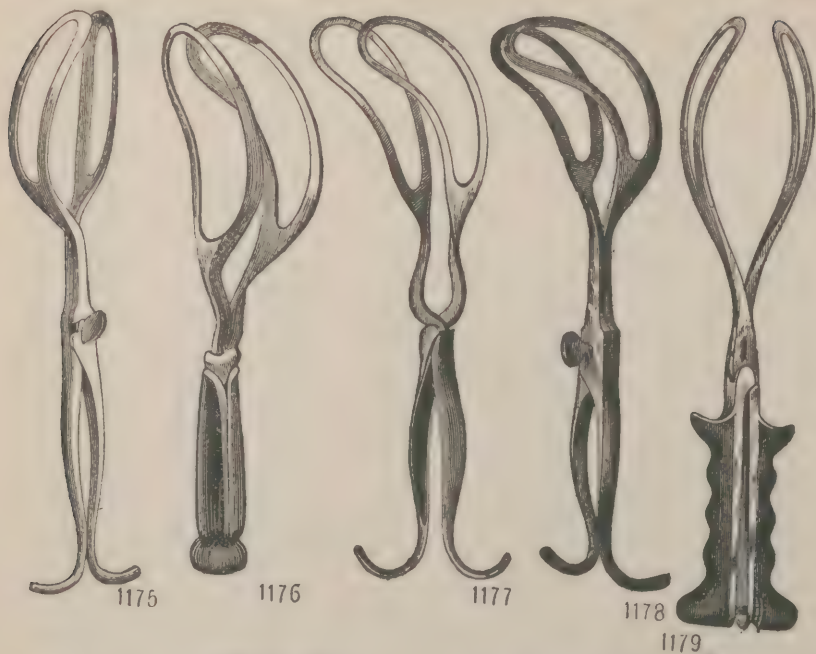
## OBSTETRICAL INSTRUMENTS.

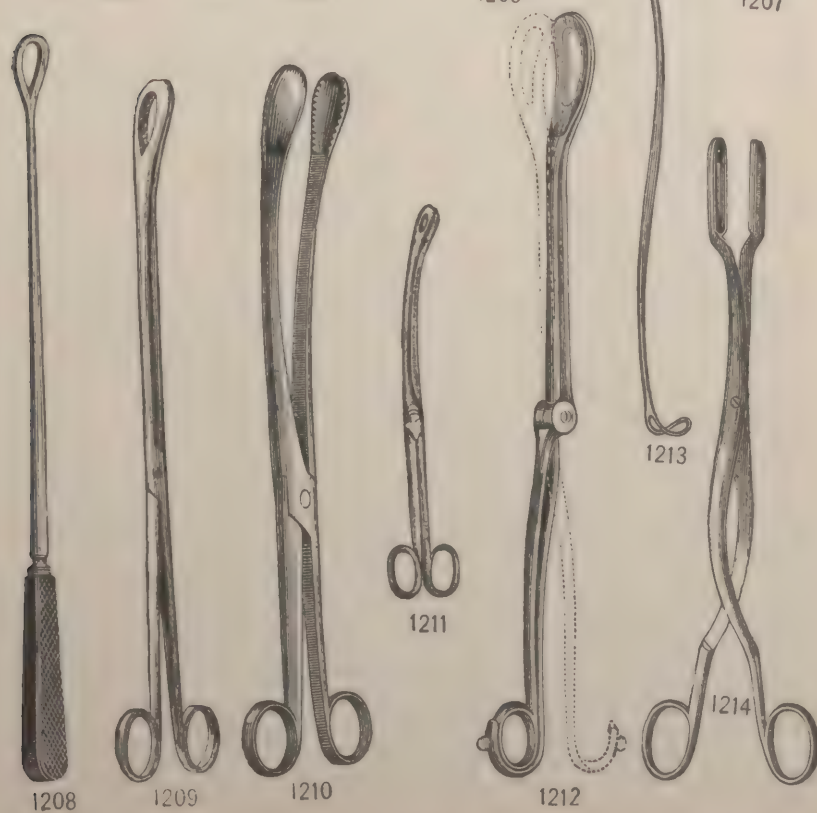


No. 1174.

1174.	Obstetrical Forceps, Mitchell's, . . . . .	6 00
1175.	“ “ Hodge's, . . . . .	4 50

The boldface numbers represent instruments illustrated.





# C. H. GOLDTHWAITE & CO.,

## OBSTETRICAL INSTRUMENTS—Continued.

NO.		PRICE.
<b>1176.</b>	Obstetrical Forceps, Davis', . . . . .	<b>\$5 00</b>
<b>1177.</b>	“ “ Comstock's, . . . . .	<b>6 00</b>
<b>1178.</b>	“ “ Bethel's, . . . . .	<b>6 00</b>
<b>1179.</b>	“ “ Elliott's, . . . . .	<b>6 00</b>
<b>1180.</b>	“ “ Parvin's modification of Davis', . . . . .	<b>5 00</b>
<b>1181.</b>	“ “ Ireland's, . . . . .	<b>5 00</b>
<b>1182.</b>	“ “ Bedford's, . . . . .	<b>6 00</b>
<b>1183.</b>	“ “ Wallace's, . . . . .	<b>4 50</b>
<b>1184.</b>	“ “ Tarnier's latest, . . . . .	<b>25 00</b>
<b>1185.</b>	“ “ Lusk's modification of Tarnier's, . . . . .	<b>18 00</b>
<b>1186.</b>	“ “ Simpson's, . . . . .	<b>5 00</b>
<b>1187.</b>	“ “ Hale's, . . . . .	<b>4 00</b>
<b>1188.</b>	“ “ Sawyer's, . . . . .	<b>4 00</b>
<b>1189.</b>	“ “ Stewart's, . . . . .	<b>12 00</b>
<b>1190.</b>	“ “ Simpson's modification of Tarnier's, . . . . .	<b>12 00</b>
<b>1191.</b>	“ “ “ with vulcanized rubber handles, . . . . .	<b>6 00</b>
<b>1192.</b>	“ “ “ with aluminum handles, . . . . .	<b>6 50</b>
<b>1193.</b>	“ “ Broomall's modification of Simpson's, . . . . .	<b>5 50</b>

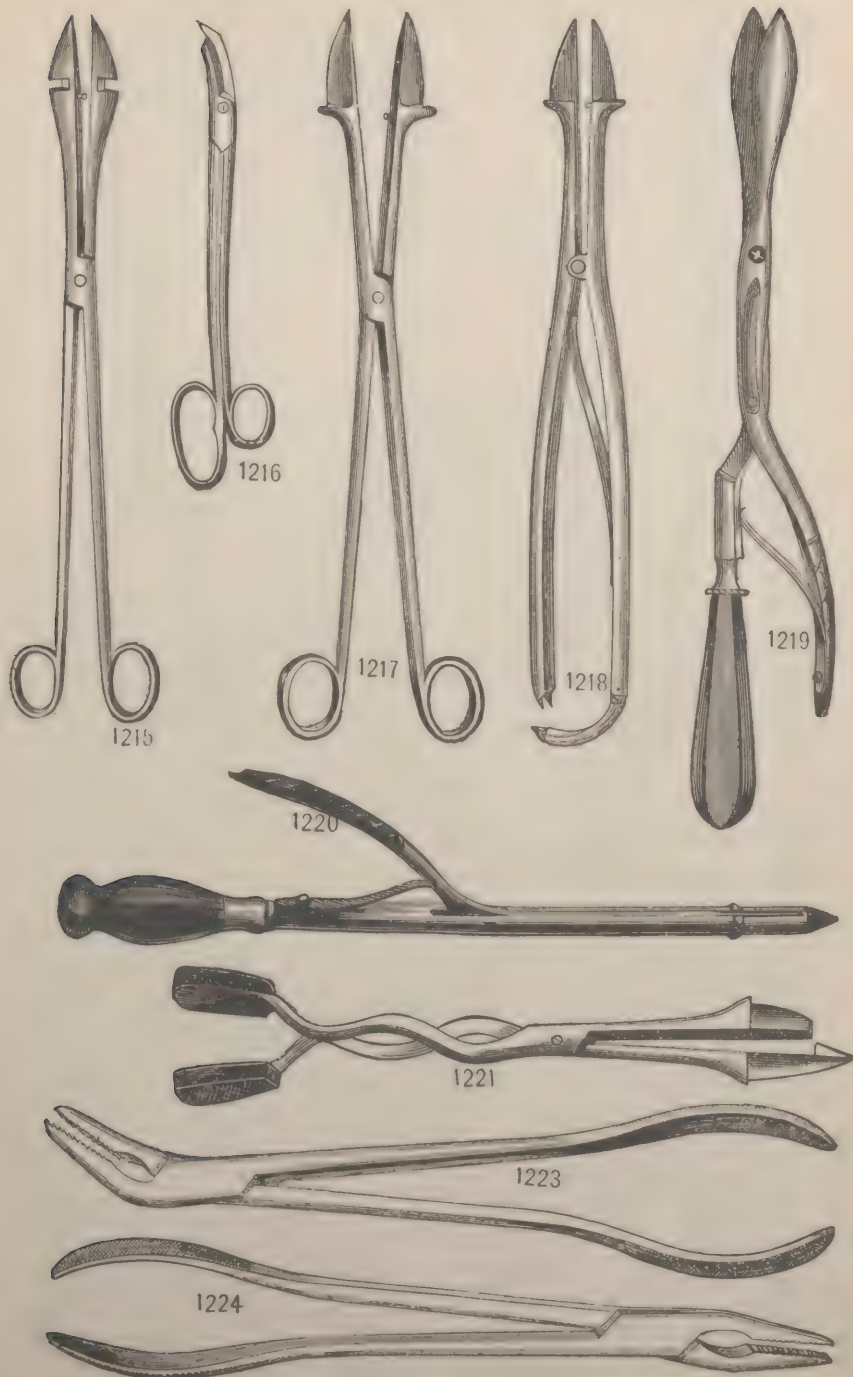


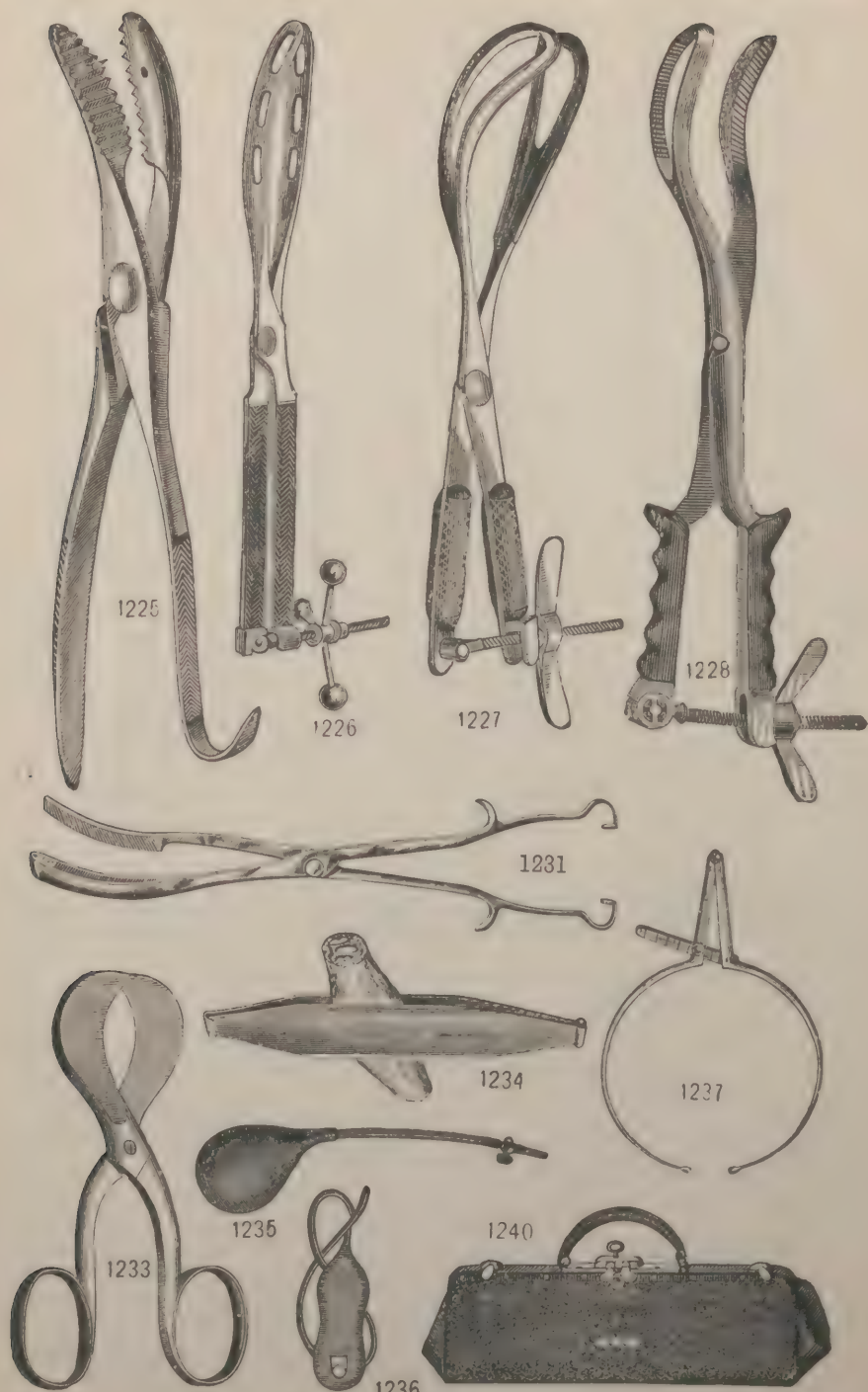
**No. 1193.**

<b>1199.</b>	Galbiati's Symphysiotomy Knife, . . . . .	<b>2 50</b>
<b>1200.</b>	Crotchet, . . . . .	<b>1 50</b>
<b>1201.</b>	Vectis and Blunt Hook, . . . . .	<b>1 50</b>
<b>1202.</b>	Blunt Hook, . . . . .	<b>1 25</b>
<b>1203.</b>	“ “ and Crotchet, . . . . .	<b>1 15</b>
<b>1204.</b>	Double Vectis, . . . . .	<b>1 50</b>
<b>1205.</b>	Vectis, with handle, . . . . .	<b>1 75</b>
<b>1206.</b>	“ folding handle, . . . . .	<b>2 75</b>
<b>1207.</b>	Decapitating Hook, . . . . .	<b>1 75</b>
<b>1208.</b>	Munde's Curette, 2 sizes, . . . . . each	<b>1 50</b>
<b>1209.</b>	Budd's Placenta Forceps, . . . . .	<b>1 85</b>
<b>1210.</b>	Bond's “ “ . . . . .	<b>1 75</b>
<b>1211.</b>	Christine's “ “ . . . . .	<b>3 00</b>
<b>1212.</b>	Loomis' “ “ . . . . .	<b>4 00</b>
<b>1213.</b>	Leavitt's “ Hook, . . . . .	<b>1 25</b>
<b>1214.</b>	Double Crossing Placenta Forceps, . . . . .	<b>2 25</b>

The boldface numbers represent instruments illustrated.







## OBSTETRICAL INSTRUMENTS—Continued.

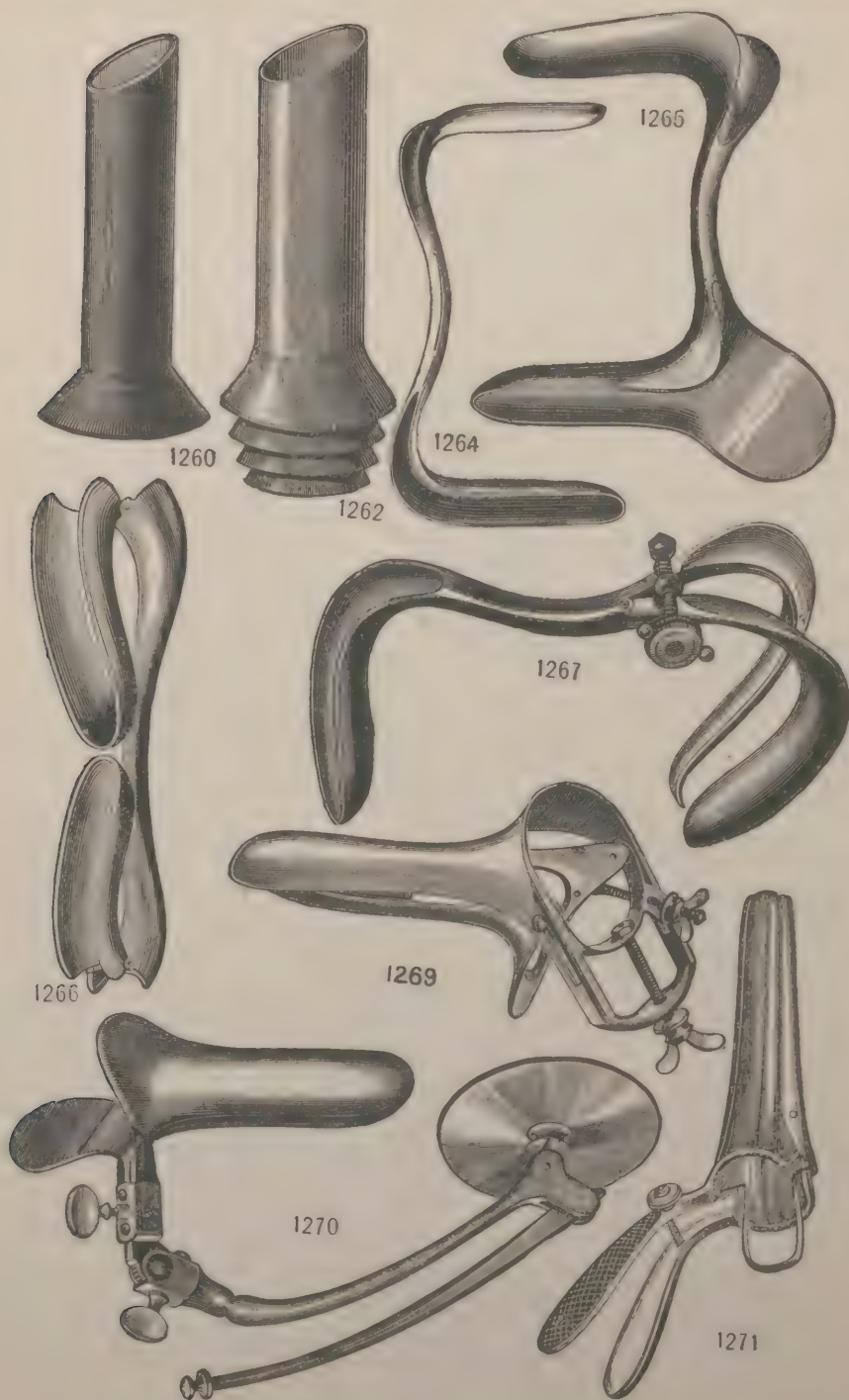
NO.		PRICE.
<b>1215.</b>	Perforator, Simpson's, . . . . .	\$2 25
<b>1216.</b>	Craniotomy Scissors, Hodge's, . . . . .	3 75
<b>1217.</b>	Perforator, Smellie's, . . . . .	2 00
<b>1218.</b>	“ Naegeli's, . . . . .	2 50
<b>1219.</b>	“ Blot's, . . . . .	4 50
<b>1220.</b>	“ Thomas', . . . . .	5 00
<b>1221.</b>	“ Holmes', . . . . .	3 75
<b>1222.</b>	“ Ireland's, . . . . .	3 50



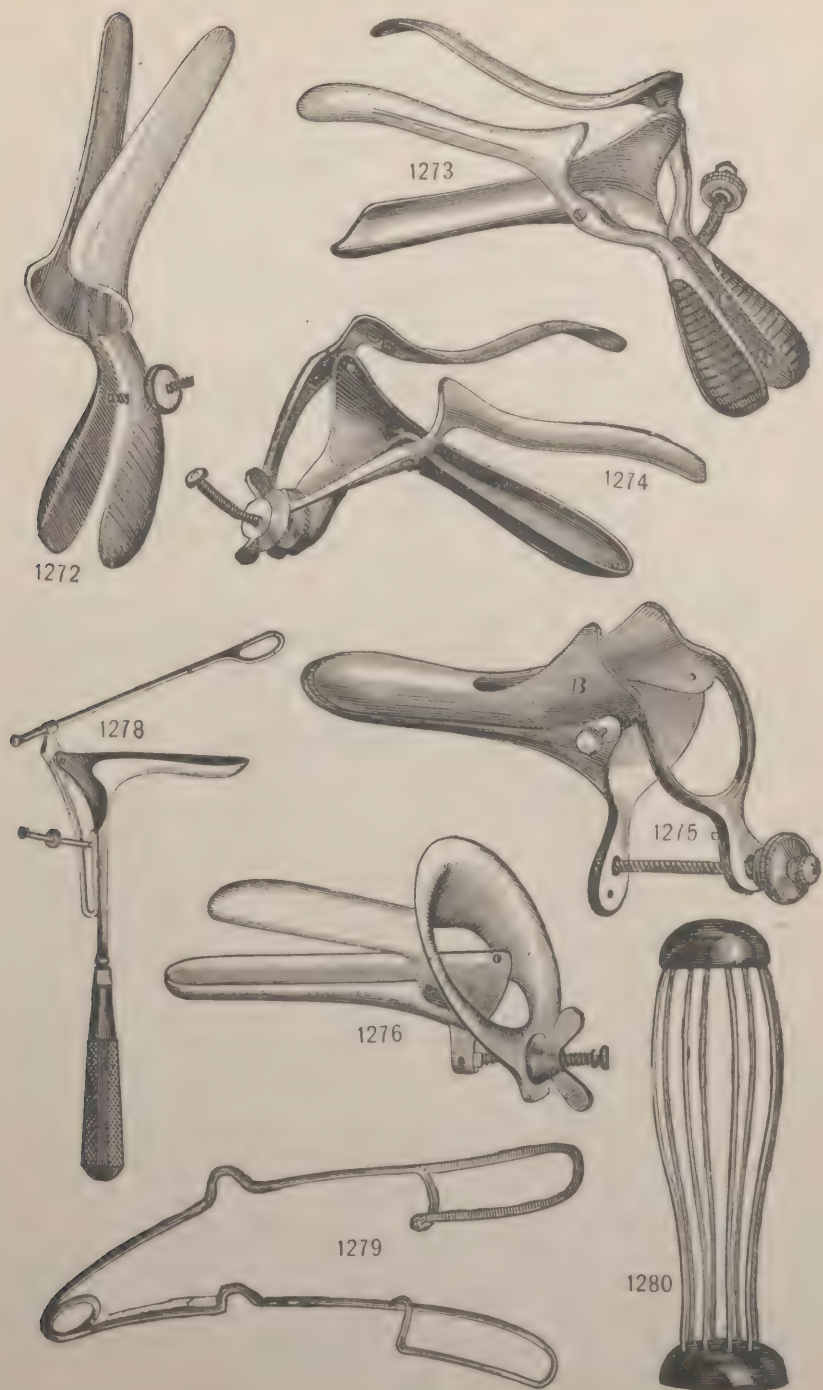
No. 1199.

<b>1223.</b>	Craniotomy Forceps, Meigs' curved, . . . . .	2 25
<b>1224.</b>	“ “ “ straight, . . . . .	2 25
<b>1225.</b>	“ “ Thomas', . . . . .	4 50
<b>1226.</b>	Cephalotribe, Hodge's, . . . . .	15 00
<b>1227.</b>	“ Lusk's, . . . . .	13 50
<b>1228.</b>	“ Braun's, . . . . .	13 50
<b>1229.</b>	“ Simpson's, . . . . .	15 00
<b>1230.</b>	Cranioclast, “ . . . . .	7 00
<b>1231.</b>	“ Broomall's, . . . . .	7 50
<b>1233.</b>	Umbilical Scissors, . . . . .	1 25
<b>1234.</b>	Pulling's Funis Clamp, . . . . .	30
<b>1235.</b>	Colpeurynter, Braun's, . . . . .	75
<b>1236.</b>	Barnes' Dilators, 3 sizes, . . . . . each	60
<b>1237.</b>	Pelvimeter, Baudelocq's, . . . . .	6 00
<b>1238.</b>	Hard Rubber Stop-cock, . . . . .	75
<b>1239.</b>	Obstetrical Bag, 12 inch, . . . . .	3 00
<b>1240.</b>	“ “ 15 “ without bottles, . . . . .	3 50
<b>1241.</b>	“ “ 15 “ with “ . . . . .	4 25
<b>1242.</b>	“ “ 16 “ without “ . . . . .	3 75
<b>1243.</b>	“ “ 16 “ with “ . . . . .	4 50
<b>1244.</b>	“ “ 18 “ without “ . . . . .	4 25
<b>1245.</b>	“ “ 18 “ with “ . . . . .	5 00
<b>1250.</b>	Obstetrical Set, containing 1 Plain Obstetrical Forceps, 1 Blunt Hook and Crotchet, 1 Bond's Placenta Forceps, 1 Vectis, 1 Smellie's Perforator, 1 Meigs' Craniotomy Forceps; in morocco roll case, . . . . .	16 50

The boldface numbers represent instruments illustrated.



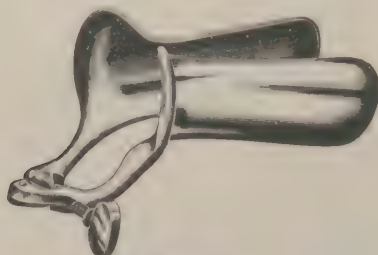




# C. H. GOLDTHWAITE & CO.,

## GYNÆCOLOGICAL INSTRUMENTS.

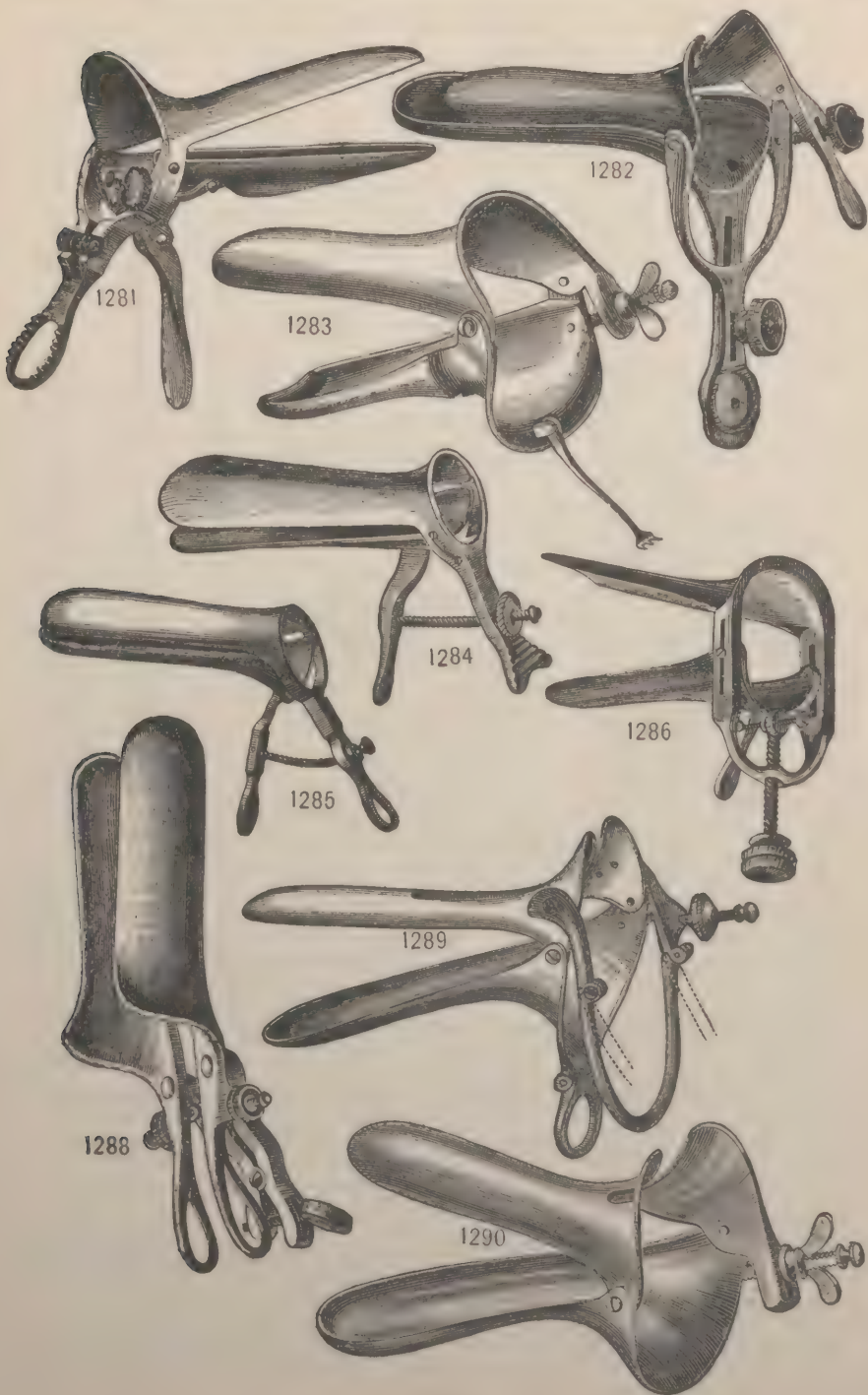
NO.		PRICE.
<b>1260.</b>	Speculum, Ferguson's glass reflecting, different sizes, . . . each	\$0 40
<i>1261.</i>	" fenestrated " " " " " " "	50
<b>1262.</b>	" cylindrical, hard rubber, 4 sizes, . . . . . "	75
<i>1263.</i>	" " " " metal-lined, 4 sizes, . . . " "	1 25
<b>1264.</b>	" Sims', 4 sizes, . . . . . "	1 35
<b>1265.</b>	" Munde's modification of Sims', . . . . . "	2 75
<b>1266.</b>	" Sims' Folding, . . . . . "	4 00
<b>1267.</b>	" Dawson's modification of Sims', . . . . . "	4 50
<i>1268.</i>	" Neugebauer's, 4 in set, . . . . . "	4 50
<b>1269.</b>	" Hale's, . . . . . "	3 00
<b>1270.</b>	" Dawson's modification of Erich's, . . . . . "	10 00
<b>1271.</b>	" Ricords' 4 blade, . . . . . "	5 00
<b>1272.</b>	" " 2 " " " " " " " "	3 00
<b>1273.</b>	" Nelson's, trivalve, 2 sizes, . . . . . each	3 00
<b>1274.</b>	" Nott's " 3 " " " " " " "	2 50
<b>1275.</b>	" Brewer's, 2 sizes, . . . . . "	2 50
<b>1276.</b>	" Higbee's, 3 " " " " " " " "	2 00

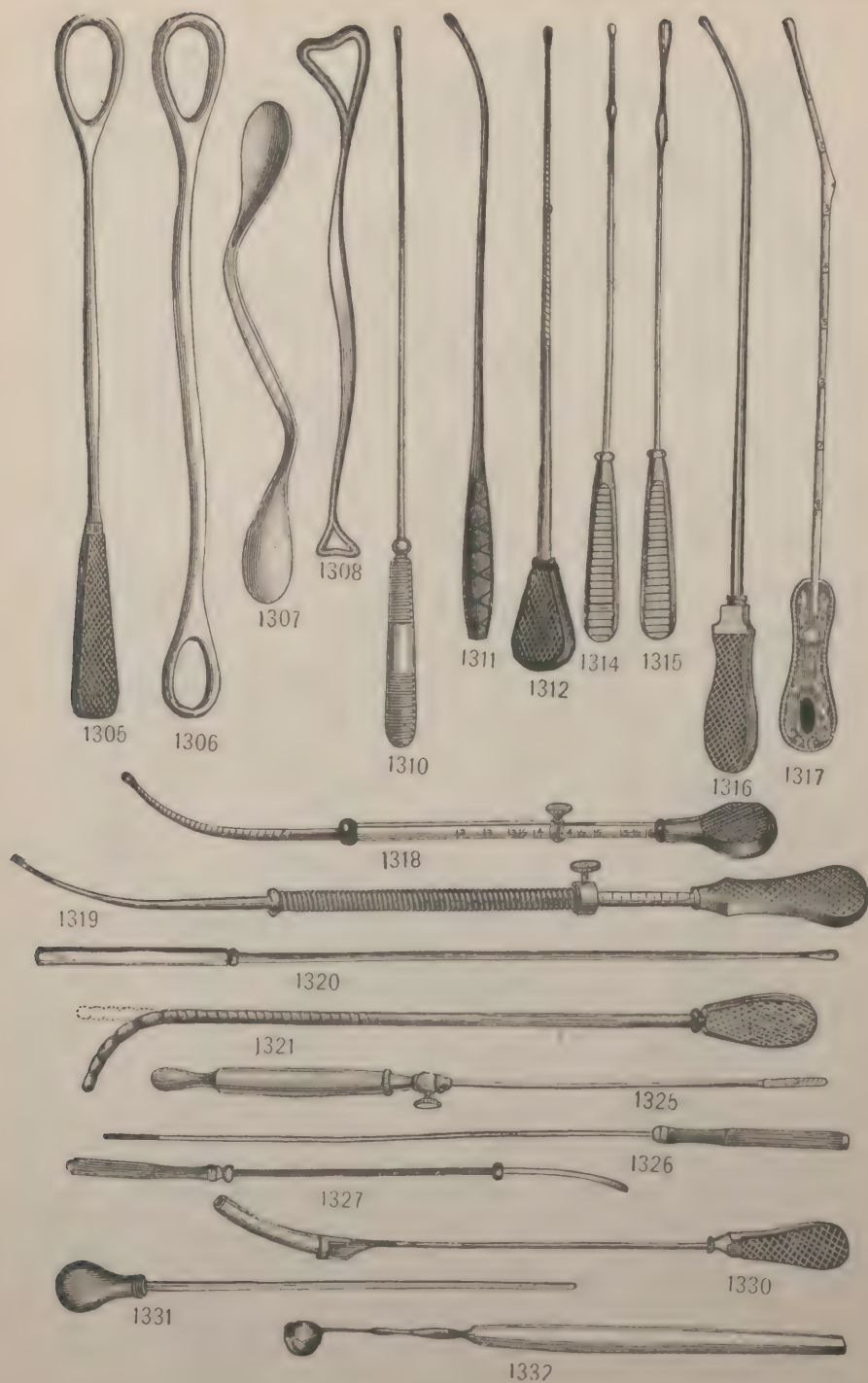


No. 1293.

<i>1277.</i>	Speculum, Hunter's modification of Erich's, . . . . .	6 75
<b>1278.</b>	" Thomas' " " Sims', . . . . .	6 50
<b>1279.</b>	" wire labia, . . . . .	1 50
<b>1280.</b>	" Bath, . . . . .	1 50
<b>1281.</b>	" Cusco's folding handle, . . . . .	2 50
<b>1282.</b>	" Graves', convertible into a Sims', . . . . .	2 00
<b>1283.</b>	" Hunter's, . . . . .	4 00
<b>1284.</b>	" Storer's, convertible into a Sims', . . . . .	2 50
<b>1285.</b>	" Cusco's stiff handle, . . . . .	2 00
<b>1286.</b>	" Jackson's, . . . . .	3 00
<i>1287.</i>	" Goodell's, . . . . .	4 00
<b>1288.</b>	" Baer's modification of Goodell's, . . . . .	4 00
<b>1289.</b>	" Howard's, . . . . .	3 00
<b>1290.</b>	" Taylor's, . . . . .	2 50

The boldface numbers represent instruments illustrated.





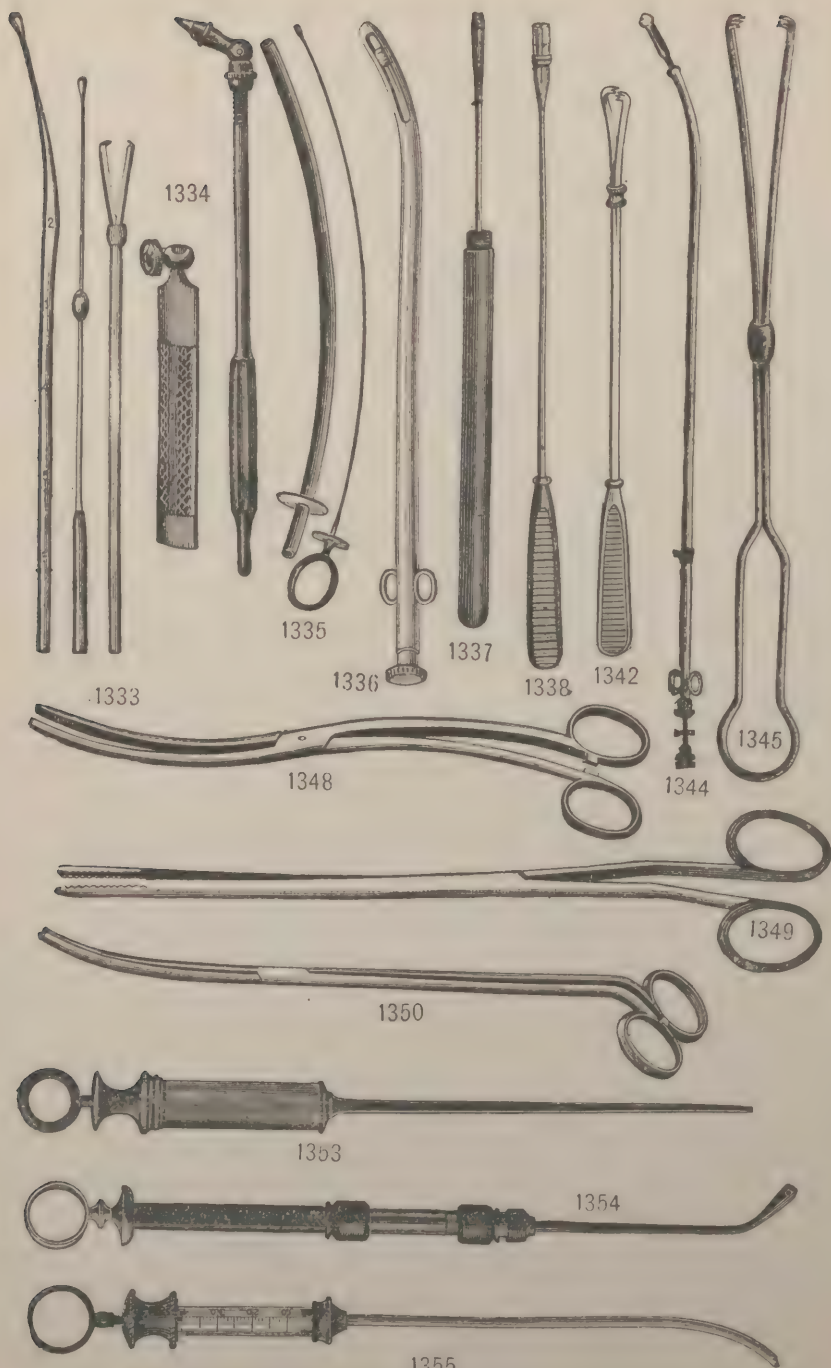


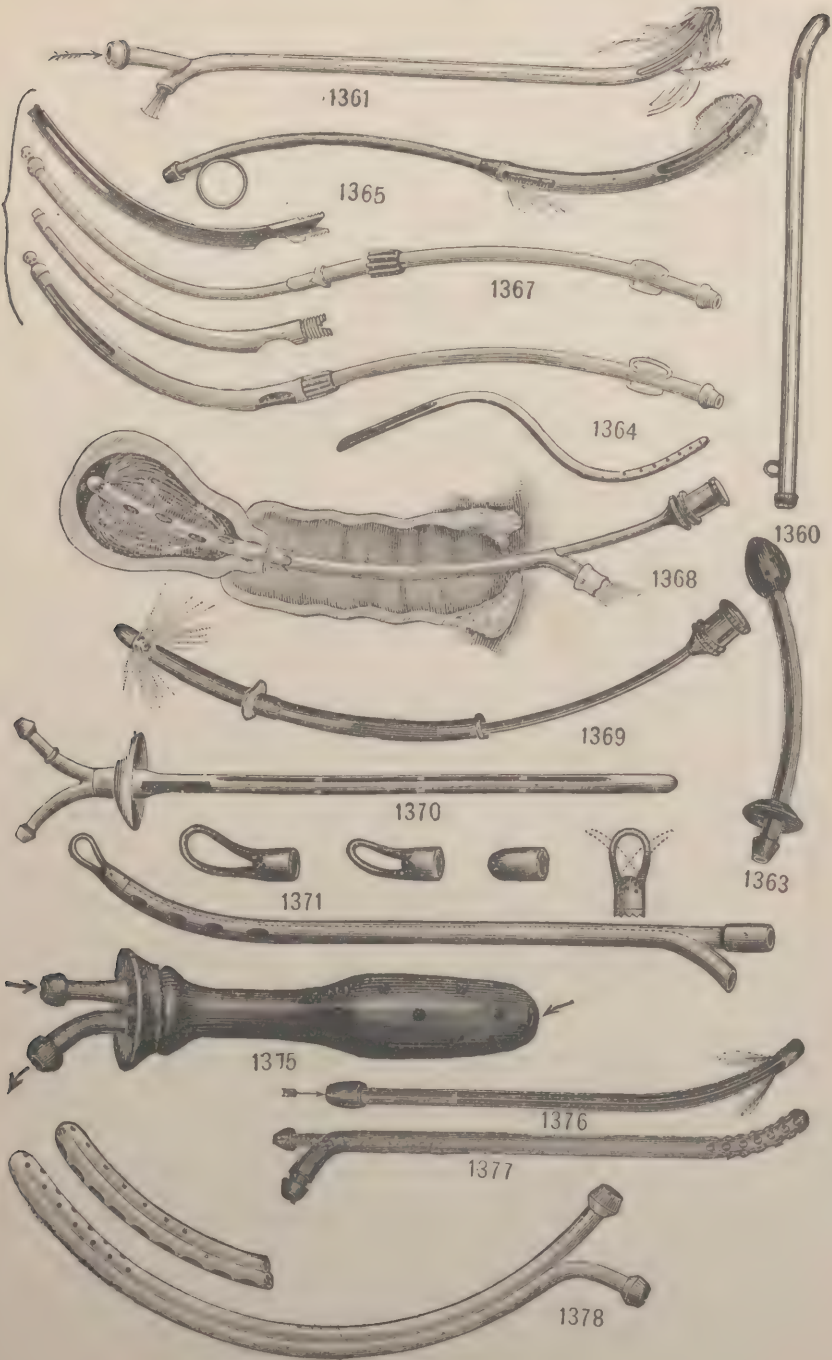
# 186 WASHINGTON ST., BOSTON.

## GYNÆCOLOGICAL INSTRUMENTS—Continued.

NO.		PRICE.
1291.	Speculum, Palmer's bivalve, . . . . .	\$3 00
1292.	“ “ trivalve, . . . . .	3 50
1293.	“ Collins' latest, . . . . .	3 00
1294.	“ Emmet's self-retaining, . . . . .	5 25
1295.	“ Erich's plain, . . . . .	10 00
1297.	“ Keene's Virgin, . . . . .	4 50
1305.	Vaginal Depressors, Sims', metal handle, . . . . .	75
1306.	“ “ “ double, . . . . .	75
1307.	“ “ Dawson's modification of Hunter's, . . . . .	1 50
1308.	“ “ Nott's, double, . . . . .	75
1309.	“ “ Emmet's, . . . . .	1 00
1310.	Probe, Uterine, silver, metal handle, . . . . .	90
1311.	“ “ hard rubber, . . . . .	35
1312.	“ “ Jenks', flexible, . . . . .	85
1314.	“ Lente's caustic, 1 bulb, . . . . .	1 00
1315.	“ “ “ 2 bulbs, . . . . .	1 25
1316.	Sounds, Uterine, Sims', . . . . .	65
1317.	“ “ Simpson's, . . . . .	60
1318.	“ “ Jenks', . . . . .	1 75
1319.	“ “ Fitch's, . . . . .	1 00
1320.	“ “ aluminum, . . . . .	60
1321.	“ “ Leonard's, . . . . .	4 00
1322.	“ “ Skeene's, . . . . .	2 25
1324.	Aluminum Applicator, without handle, . . . . .	15
1325.	“ “ and set-screw handle, . . . . .	65
1326.	“ “ with fixed handle, . . . . .	35
1327.	Emmet's Silver Applicator, with spiral slide, . . . . .	1 00
1330.	Wylie's Cervical Speculum or Protector, . . . . .	1 50
1331.	“ “ Applicator, . . . . .	75
1332.	Lente's Platinum Cup, . . . . .	3 50
1333.	Buttle's set of 1 Simpson's Sound, 1 Lente's Silver Probe, and 1 Sponge Holder, with set-screw handle, . . . . .	2 25
1334.	Leiter's Caustic Holder, with Universal joint, H. R., . . . . .	1 25
1335.	Mitchell's Applicator, for applying soluble pencils, . . . . .	1 25
1336.	Barnes' Tube, holes in side or end for ointment, silver, . . . . .	2 50
1337.	Byford's Caustic Holder, with flexible wire and silver burner, . . . . .	1 00
1338.	“ “ long silver, . . . . .	1 25
1339.	“ “ hard rubber, 5 inch, . . . . .	50
1342.	Sponge Holder, metal handle, ring slide, curved or straight, . . . . .	50
1343.	“ “ spiral “ “ “ . . . . .	75
1344.	Porte-Caustic, Lallemand's, . . . . .	3 00
1345.	Sponge Holder, Husson's, . . . . .	50
1348.	Dressing Forceps, Bozeman's, . . . . .	1 50

The boldface numbers represent instruments illustrated.





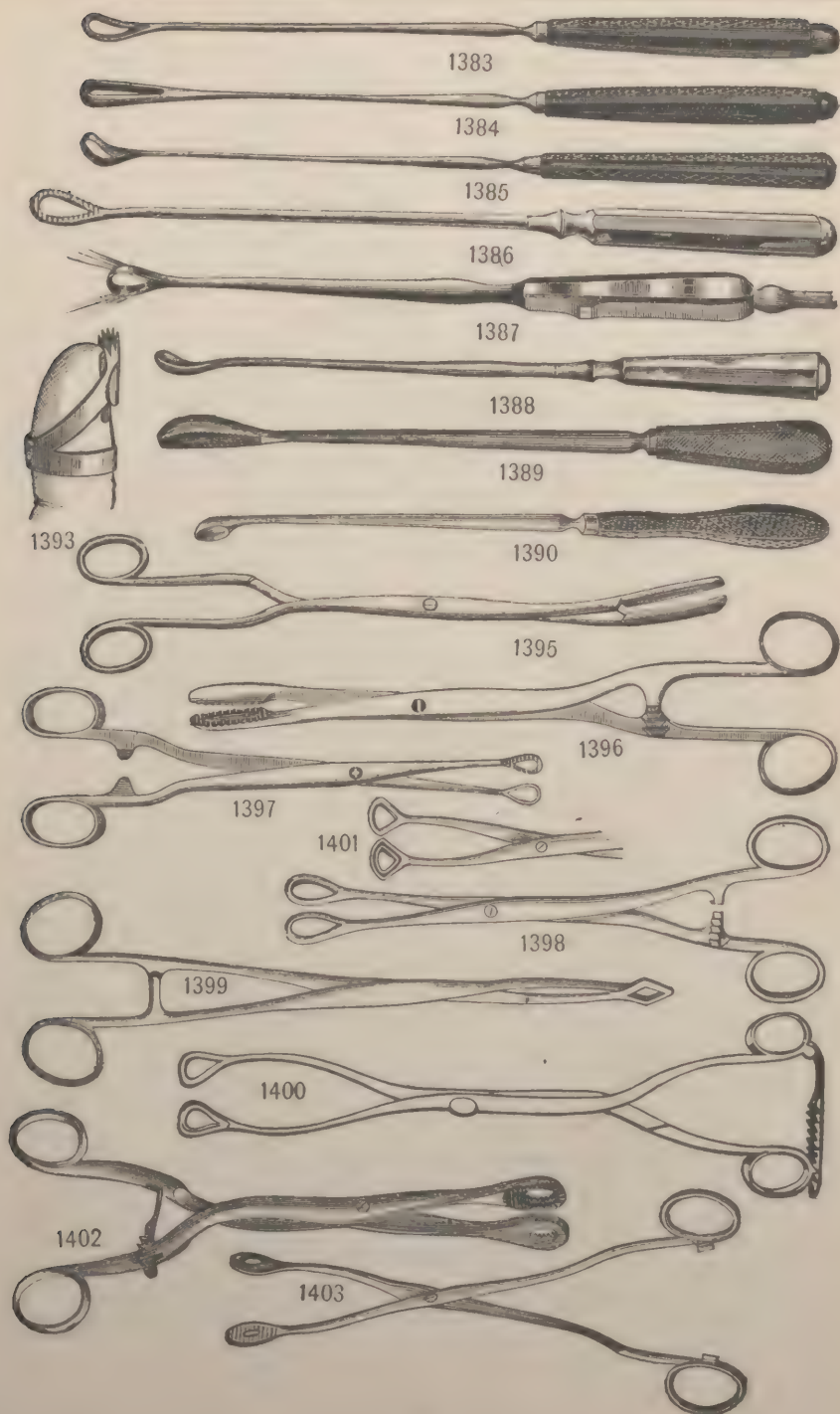
# C. H. GOLDTHWAITE & CO.,

## GYNÆCOLOGICAL INSTRUMENTS—Continued.

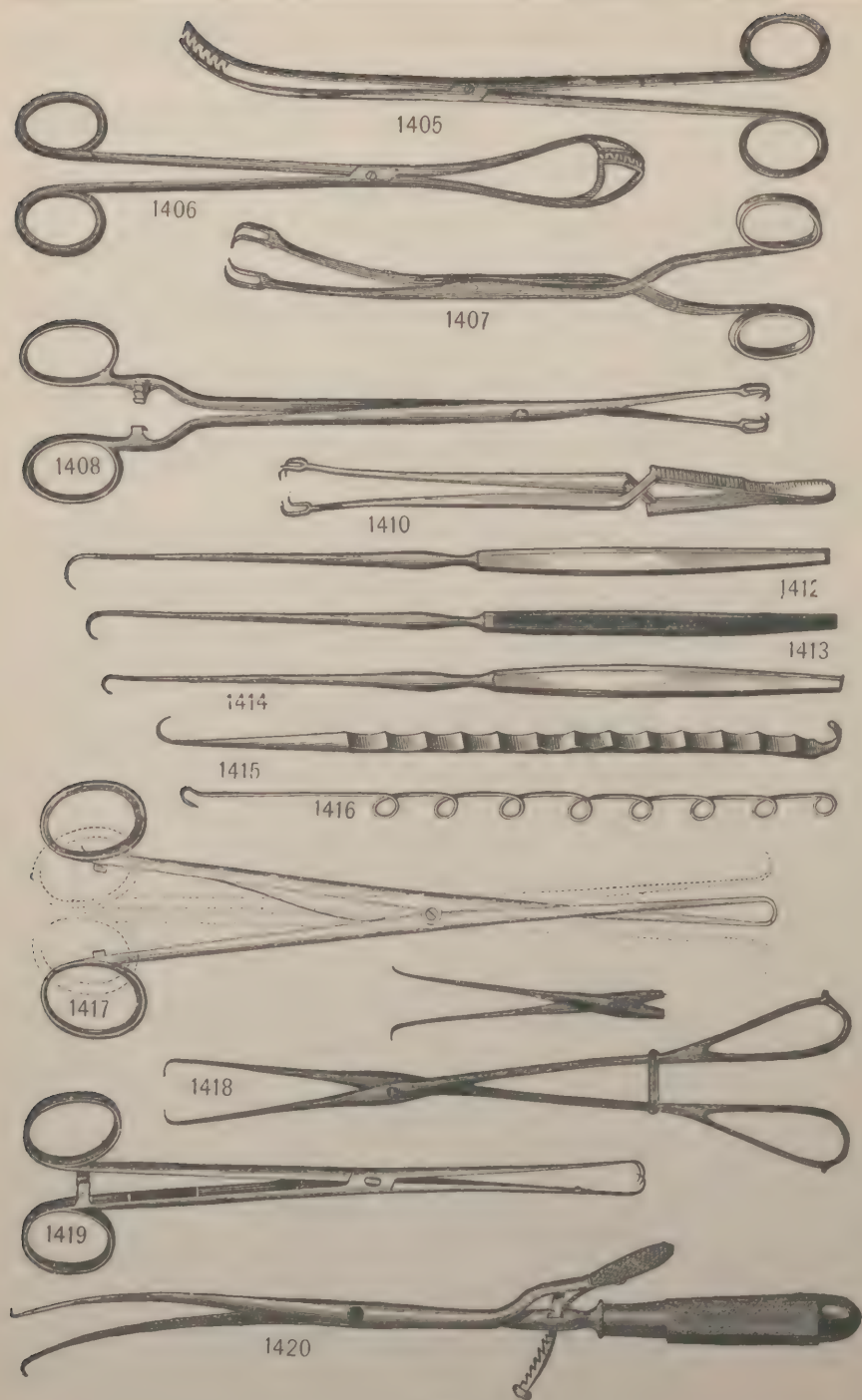
NO.		PRICE.
<b>1349.</b>	Dressing Forceps, Elliot's, with catch, . . . . .	\$1 50
<b>1350.</b>	" " Allen's, " " . . . . .	1 50
<b>1353.</b>	Uterine Syringe, hard rubber, . . . . .	85
<b>1354.</b>	" " " " with glass barrel, Braun's, . . . . .	1 50
<b>1355.</b>	" " Taylor's modification of Bumstead's, . . . . .	1 75
<b>1360.</b>	Catheter, female, plain, . . . . .	40
<b>1361.</b>	" Nott's double current, . . . . .	1 25
<b>1362.</b>	" plain, " " . . . . .	1 25
<b>1363.</b>	" Skeene's modification of Goodman's, self-retaining, . . . . .	75
<b>1364.</b>	" Sims', . . . . .	45
<b>1365.</b>	Intra-uterine Douche, Bozeman's, plain, . . . . .	1 50
<b>1366.</b>	" " " " to unscrew, . . . . .	1 75
<b>1367.</b>	" " " Kelly's Aseptic, . . . . .	3 50
<b>1368.</b>	" " " Jennison's improved, . . . . .	1 50
<b>1369.</b>	" " " " . . . . .	1 50
<b>1370.</b>	Katharophor, Zuelzer's, . . . . .	2 50
<b>1371.</b>	Abbott's Double Current Catheter and Curette combined, . . . . .	3 50
<b>1375.</b>	Vaginal Irrigator, Bodenhamer's, . . . . .	1 75
<b>1376.</b>	Reflex Catheter, Skeene's, . . . . .	1 25
<b>1377.</b>	Double Current Catheter, Skeene's, . . . . .	1 50
<b>1378.</b>	Hayne's Uterine Douche, . . . . .	1 75
<b>1383.</b>	Curettes, Thomas', metal handle, 3 sizes, . . . . . each	1 00
<b>1384.</b>	" Hank's, " 3 " . . . . . " 1 00	1 00
<b>1385.</b>	" Sims', sharp, " 3 " . . . . . " 1 00	1 00
<b>1386.</b>	" Greene's, " 3 " . . . . . " 1 15	1 15
<b>1387.</b>	" Rinsing, . . . . .	2 00
<b>1388.</b>	" Skeene's, . . . . .	1 00
<b>1389.</b>	" Thomas', serrated, 3 sizes, . . . . . each	2 50
<b>1390.</b>	" Siemon's, sharp, 3 sizes, . . . . . " 1 00	1 00
<b>1393.</b>	Enucleator, Emmet's, . . . . .	1 25
<b>1395.</b>	Curette Forceps, Emmet's, . . . . .	2 50
<b>1396.</b>	Polypus " plain, with catch, . . . . .	2 50
<b>1397.</b>	" " Wilson's, . . . . .	2 50
<b>1398.</b>	" " rounded jaws, with catch, . . . . .	2 50
<b>1399.</b>	" " Baer's, . . . . .	3 00
<b>1400.</b>	" " Luers', . . . . .	3 00
<b>1401.</b>	" " Luers', sharp-grooved, . . . . .	3 25
<b>1402.</b>	" " McClintock's, . . . . .	4 50
<b>1403.</b>	Tumor " Nelaton's, . . . . .	2 75
<b>1405.</b>	Vulsellum " Musseux's, . . . . .	2 00
<b>1406.</b>	" " Byrne's, . . . . .	2 25
<b>1407.</b>	" " long, curved, . . . . .	2 25
<b>1408.</b>	" " long, straight, with catch, . . . . .	2 50

The boldface numbers represent instruments illustrated.





C. H. GOLDTHWAITE & CO.,

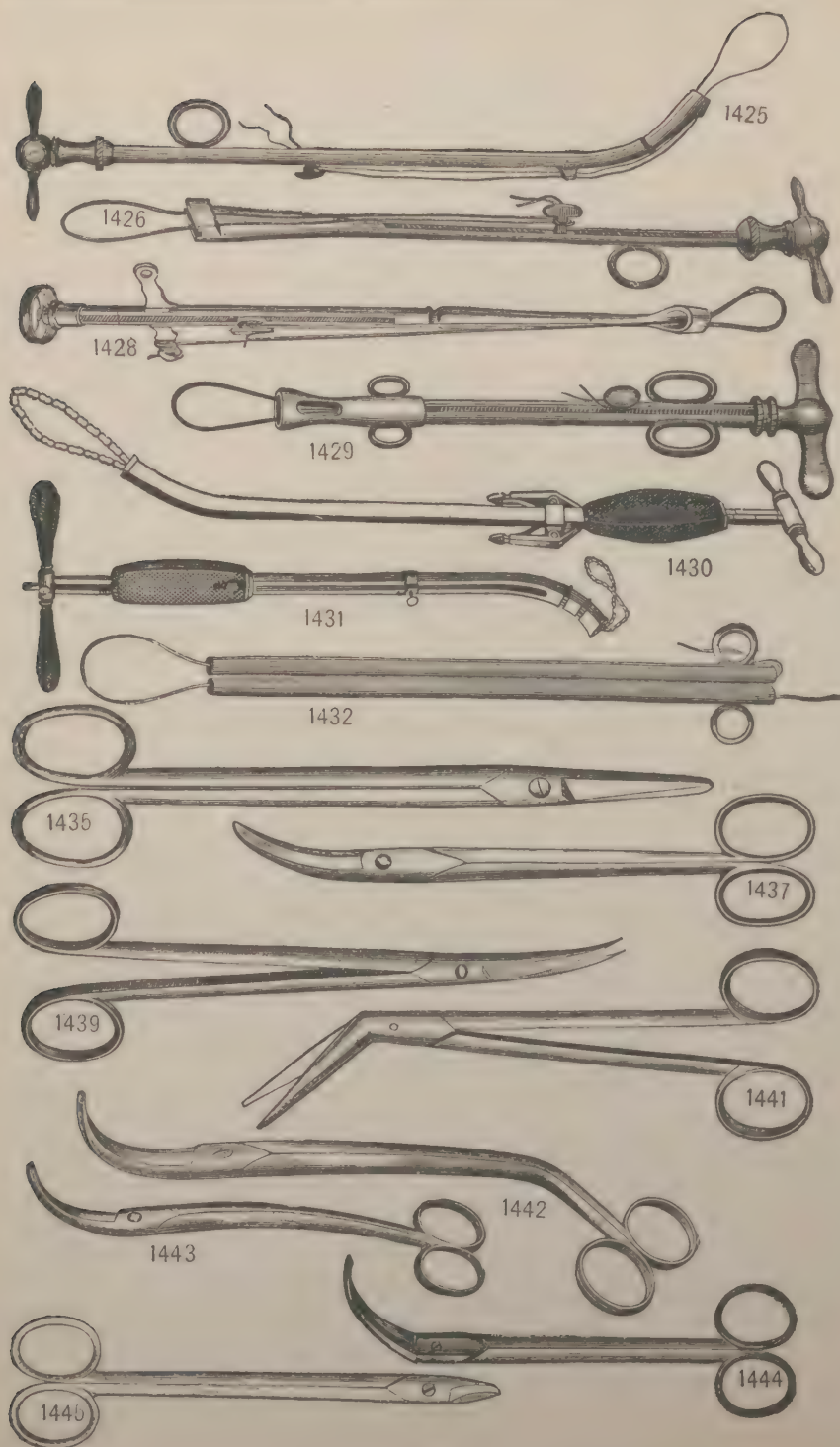


# 186 WASHINGTON ST., BOSTON.

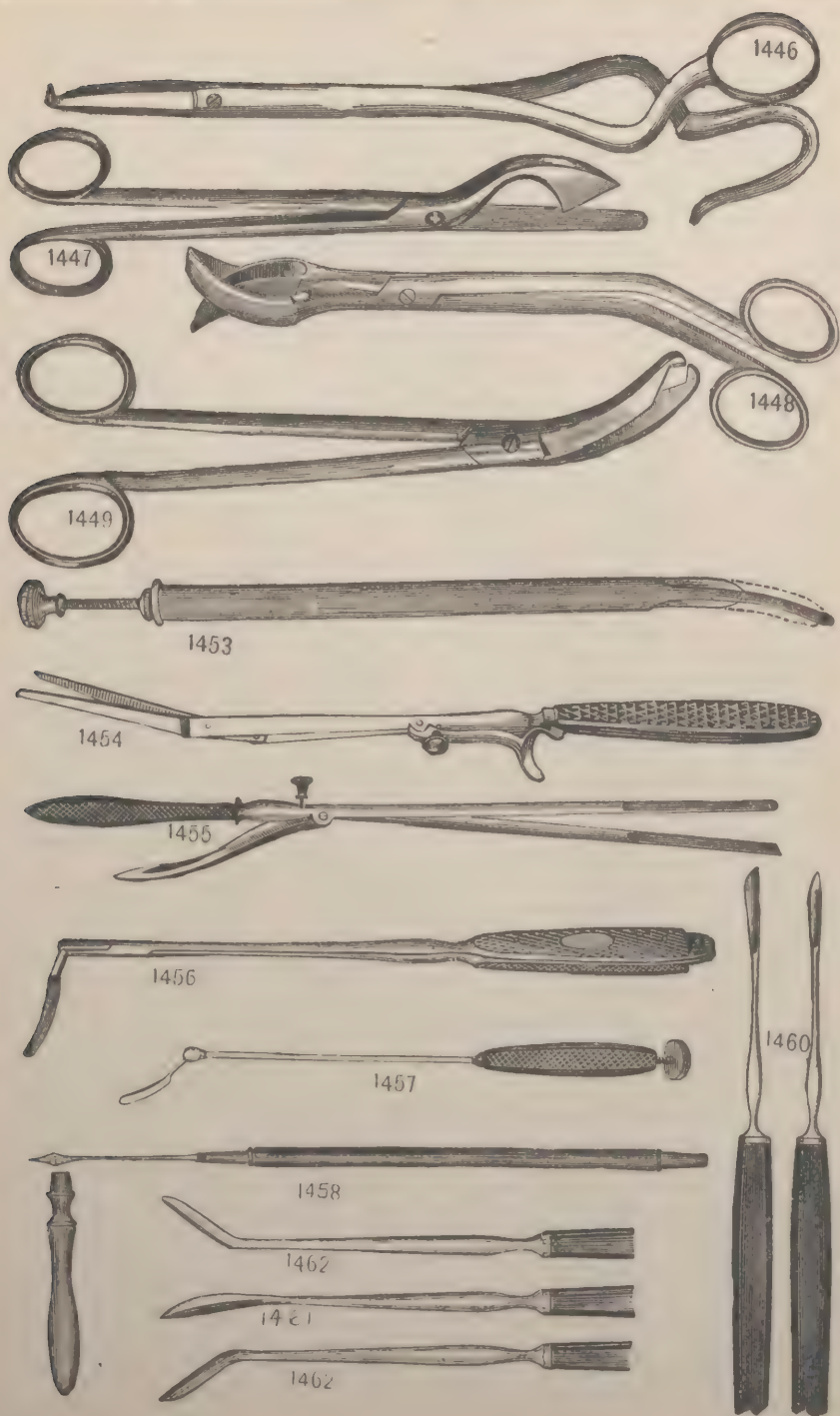
## GYNÆCOLOGICAL INSTRUMENTS—Continued.

NO.		PRICE.
1409.	Vulsellum Forceps, side teeth, . . . . .	\$2 00
1410.	“ “ cross action, . . . . .	2 00
1411.	“ “ short straight, . . . . .	2 00
1412.	Tenaculum, Goodell's, heavy, all steel, . . . . .	90
1413.	“ Emmet's, . . . . .	75
1414.	“ Sims', . . . . .	75
1415.	“ Kelly's, . . . . .	1 25
1416.	“ Nott's, . . . . .	35
1417.	Double Tenaculum Forceps, with spring and catch, . . . . .	2 50
1418.	“ “ “ Hank's, . . . . .	2 00
1419.	“ “ “ Wylie's, . . . . .	2 25
1420.	“ “ “ Emmet's, . . . . .	3 75
1425.	Ecraseur, wire, Smith's, curved, . . . . .	3 50
1426.	“ “ “ straight, . . . . .	3 50
1427.	“ “ “ with straight and curved ends, adjustable, . . . . .	4 50
1428.	“ “ Braxton-Hicks', . . . . .	10 00
1429.	Serre-Nœud, Cintrat's, . . . . .	7 50
1430.	Ecraseur, chain, Chassaignac's, . . . . .	15 00
1431.	“ “ Emmet's, . . . . .	27 00
1432.	Canula, Gooch's, . . . . .	1 00
1435.	Scissors, straight, 6½ inches, . . . . .	1 50
1436.	“ “ 8 “ . . . . .	1 75
1437.	“ curved on flat, 6½ inches, blunt, . . . . .	1 75
1438.	“ “ “ 8 “ . . . . .	2 00
1439.	“ “ “ 6½ “ sharp point, . . . . .	1 75
1440.	“ “ “ 8 “ . . . . .	2 00
1441.	“ angular, 8 inches, . . . . .	2 00
1442.	“ Bozeman's, double curved, . . . . .	2 50
1443.	“ “ curved, . . . . .	2 00
1444.	“ Emmet's, curved, right or left, . . . . . each	3 50
1445.	“ Smith's, wire-cutting, . . . . .	2 25
1446.	“ Kuchenmeister's, . . . . .	4 00
1447.	“ Skeene's, button-hole, . . . . .	5 00
1448.	“ “ hawk-bill, . . . . .	7 50
1449.	“ Hank's, . . . . .	3 25
1453.	Uterotome, Peaslee's, . . . . .	3 25
1454.	Hysterotome, Atlee's, . . . . .	4 50
1455.	“ Simpson's, . . . . .	5 00
1456.	Uterotome, Emmet's, . . . . .	5 00
1457.	Rotating Knife, Sims', . . . . .	3 25
1458.	Uterine Scarifier, Buttle's, . . . . .	1 00
1459.	“ “ Getchell's, . . . . .	1 25

The boldface numbers represent instruments illustrated.





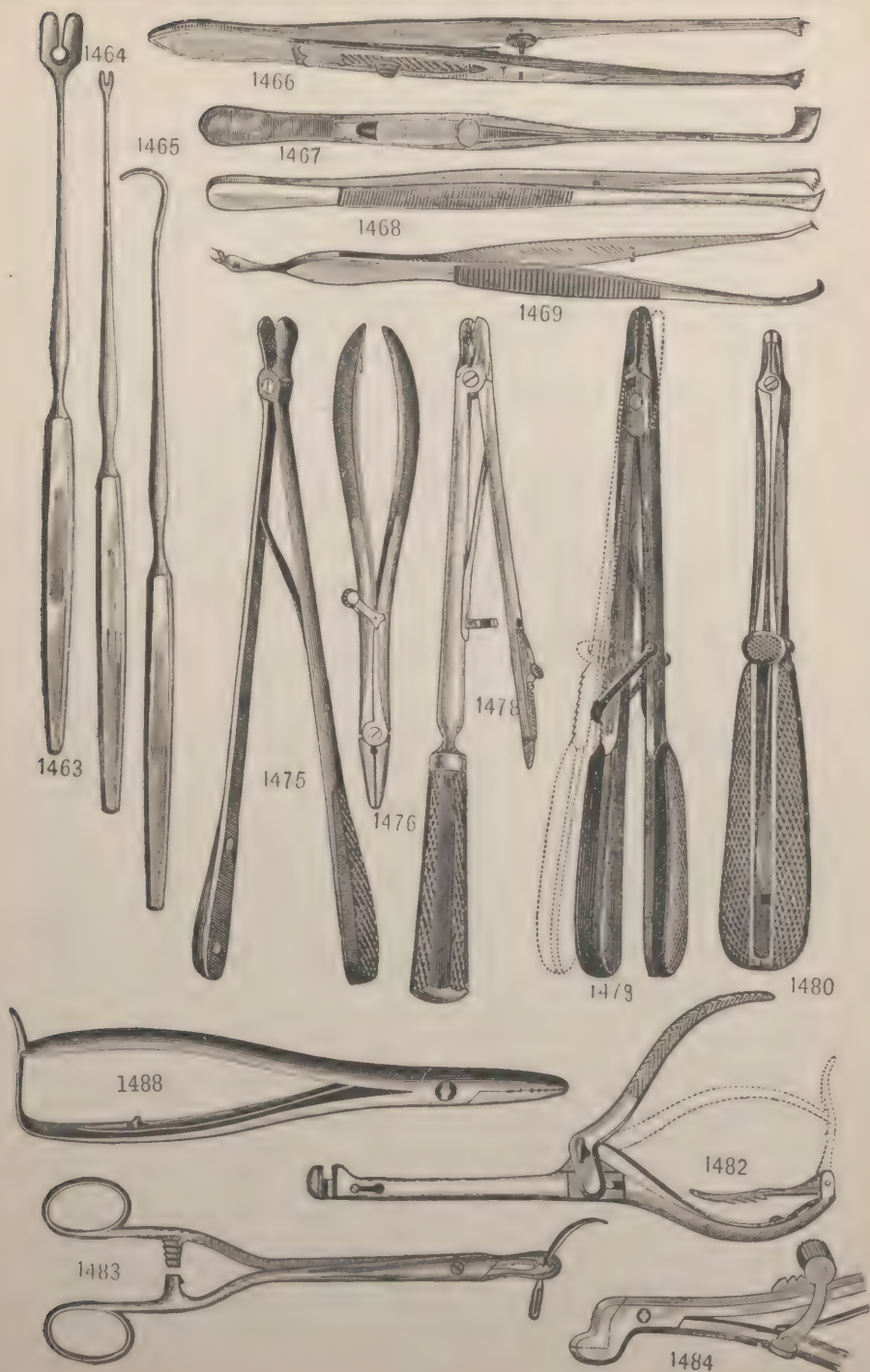


# C. H. GOLDTHWAITE & CO.,

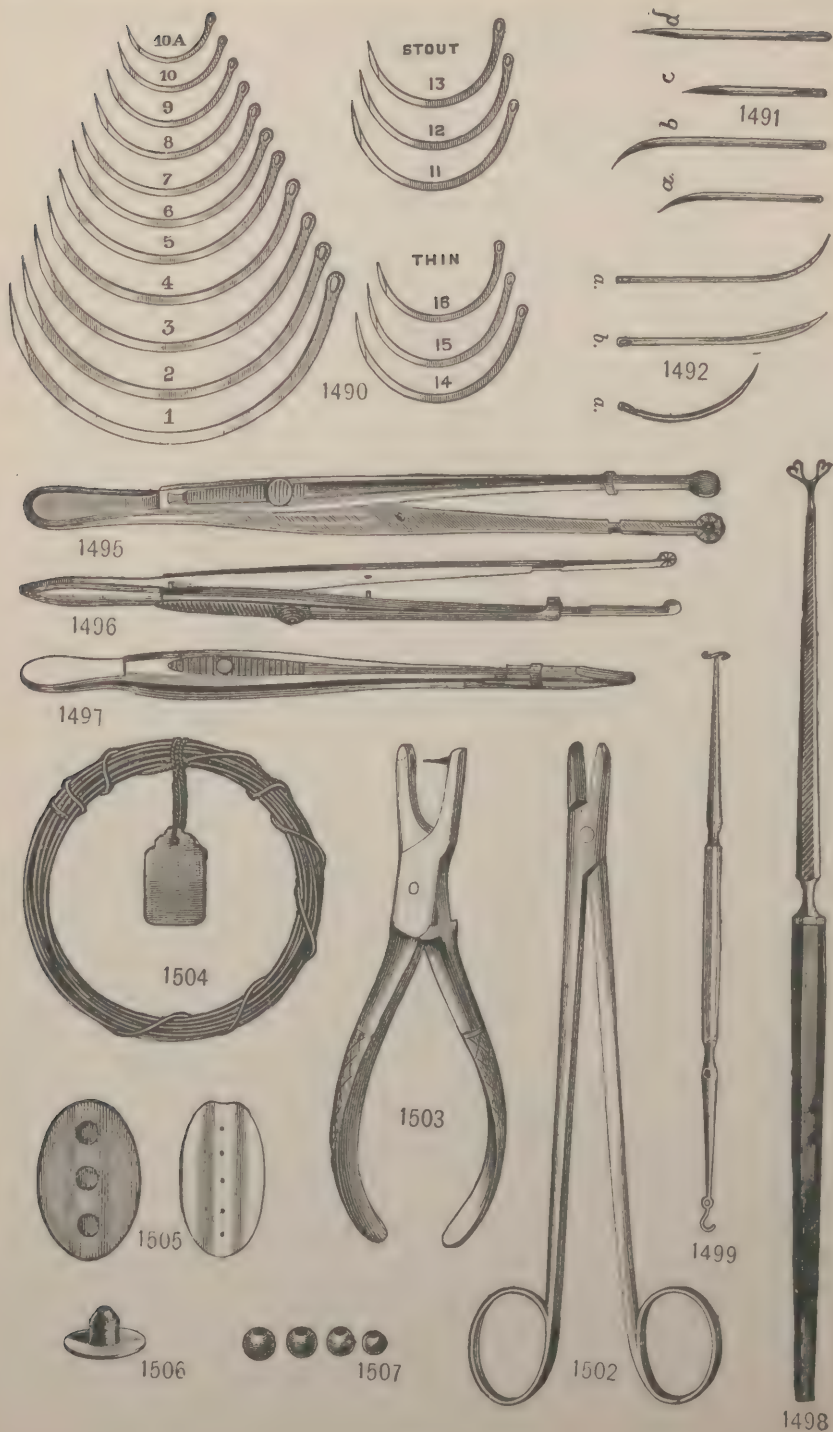
## GYNÆCOLOGICAL INSTRUMENTS—Continued.

NO.		PRICE.
1460.	Uterine Scalpel, straight, 2 sizes, . . . . .	each \$1 00
1461.	“ “ double edge, curved on flat, . . . . .	1 25
1462.	“ “ bent right or left, . . . . .	each 1 25
1463.	Wire Adjuster, Sims', . . . . .	1 10
1464.	Pulley or Fork, . . . . .	90
1465.	Blunt Hook, . . . . .	90
1466.	Tissue Forceps, Thomas', straight, slide-catch, . . . . .	3 00
1467.	“ “ “ curved, “ . . . . .	3 25
1468.	“ “ “ straight, plain, . . . . .	1 50
1469.	“ “ Agnew's, with wire adjuster, . . . . .	1 75
1470.	“ “ Sims' curved, . . . . .	2 75
1475.	Needle “ Emmet's, . . . . .	2 25
1476.	“ “ Reiner's, . . . . .	3 00
1477.	“ “ “ improved, . . . . .	3 50
1478.	“ “ Goodell's, . . . . .	4 50
1479.	“ “ Russian, . . . . .	3 00
1480.	“ “ Parrott's, . . . . .	4 00
1481.	“ “ Fowler's, . . . . .	2 75
1482.	“ “ Hagedorn's, . . . . .	5 50
1483.	“ “ Sims', with lock, . . . . .	2 00
1484.	“ “ universal, for round or flat needles, . . . . .	3 50
1485.	American Needle-holder and Wire-cutter, . . . . .	2 50
1486.	Needle Forceps, Kersten's, . . . . .	3 00
1487.	“ “ Van Lennep's modification of Kersten's, . . . . .	3 50
1488.	“ “ MacBurney's, for Hagedorn or other needles, . . . . .	2 50
1490.	Needles, Hagedorn's, . . . . ., per dozen	75
1491.	“ Sims', . . . . . “	85
1492.	“ Emmet's, . . . . . “	85
1495.	Wire-twisting Forceps, Emmet's, . . . . .	2 50
1496.	“ “ Thomas', . . . . .	2 75
1497.	“ “ Sims', . . . . .	2 50
1498.	“ Instrument, Dawson's, . . . . .	1 75
1499.	“ “ Baer's, . . . . .	1 00
1500.	Cotton Packer, Kelly's, . . . . .	75
1501.	Knot Tier, Carroll's, . . . . .	1 50
1502.	Shot Compressor, . . . . .	1 50
1503.	“ Perforator, . . . . .	1 50
1504.	Silver Wire, Nos. 21 to 30, . . . . . per one dwt. coil	20
1505.	Buttons, Bozeman's, . . . . . each	12
1506.	“ Getchell's, . . . . . per dozen	35
1507.	Perforated Shot, . . . . . per hundred	50
1510.	Uterine Tourniquet, Emmet's, . . . . .	4 00

The boldface numbers represent instruments illustrated.



# C. H. GOLDTHWAITE & CO.,





## GYNÆCOLOGICAL INSTRUMENTS—Continued.

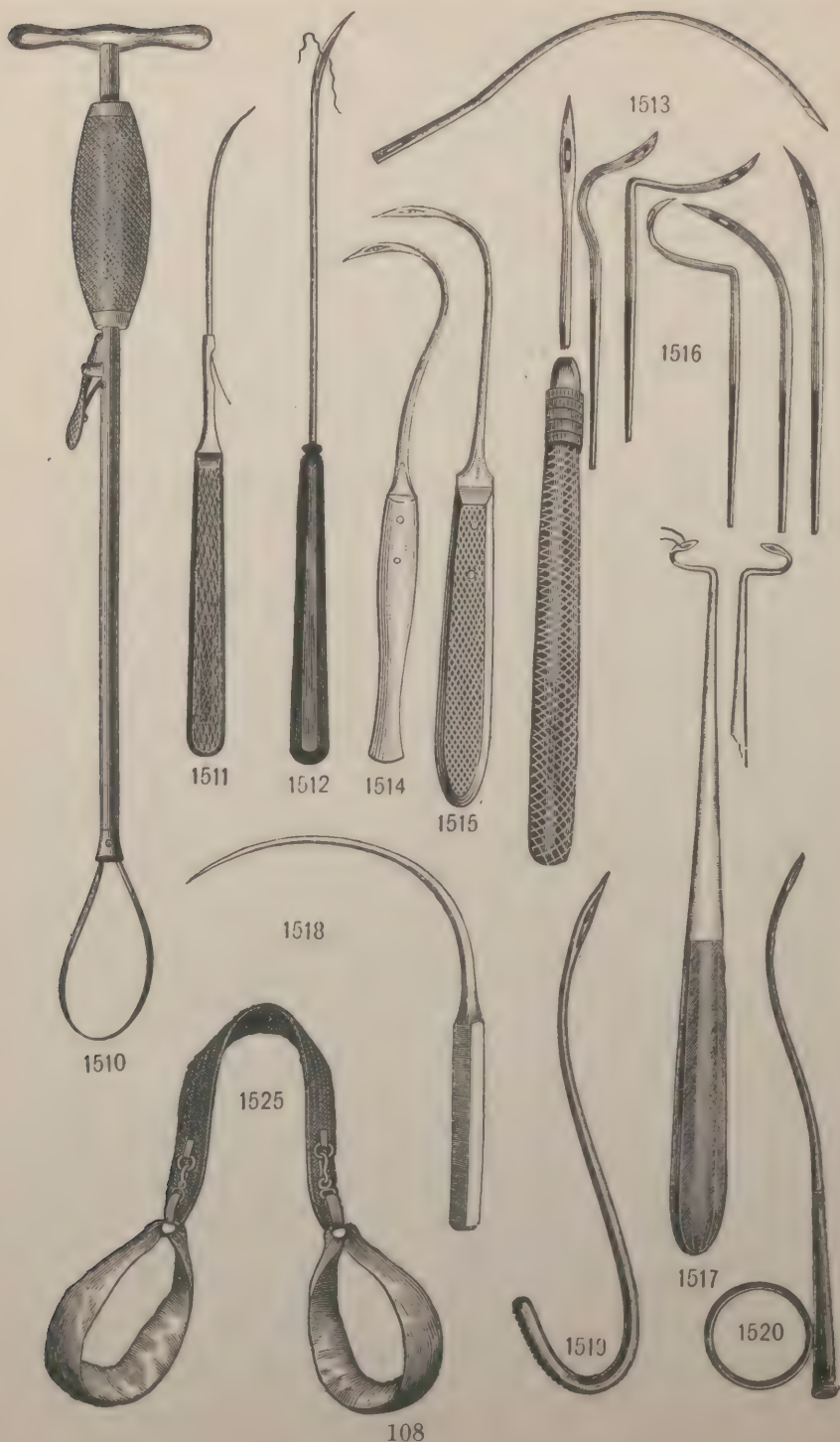
NO.		PRICE
1511.	Perineum Needle, canulated, . . . . .	\$1 25
1512.	“ “ plain. . . . .	75
1513.	“ “ Goodell's, . . . . .	20
1514.	“ “ Ashton's, . . . . .	1 00
1515.	“ “ Baker-Brown's, . . . . .	1 25
1516.	Truax's Set of Uterine Needles, in case, . . . . .	4 50
1517.	Wilson's Cervix Needle, right or left, . . . . . each	1 35
1518.	Perineum Needle, Wilson's, . . . . .	1 00
1519.	“ “ Papine's, . . . . .	65
1520.	“ “ Atlee's, canulated, . . . . .	1 00
1521.	Abdominal “ Vance's, made in 3 curves, . . . . . each	1 00

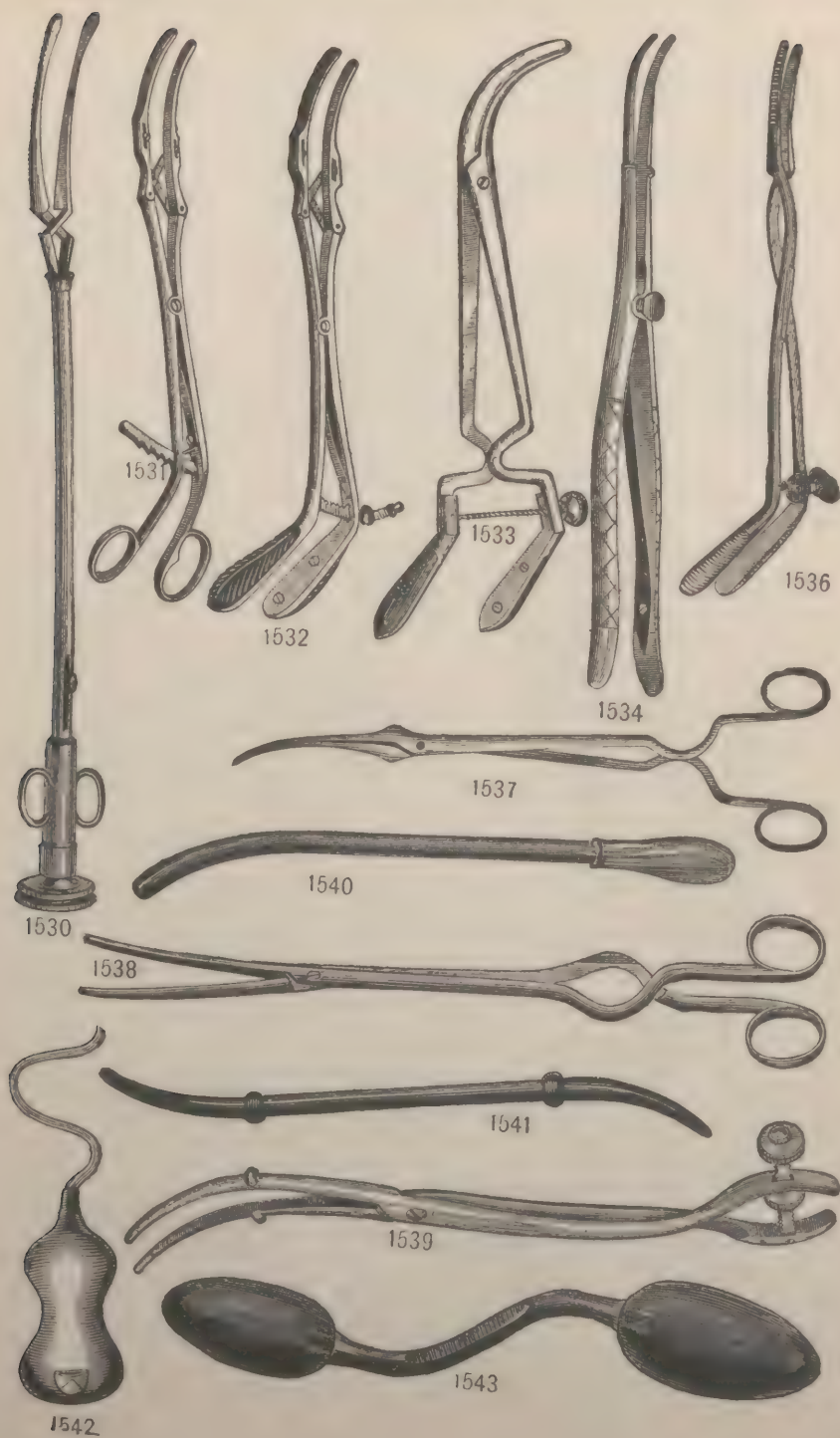


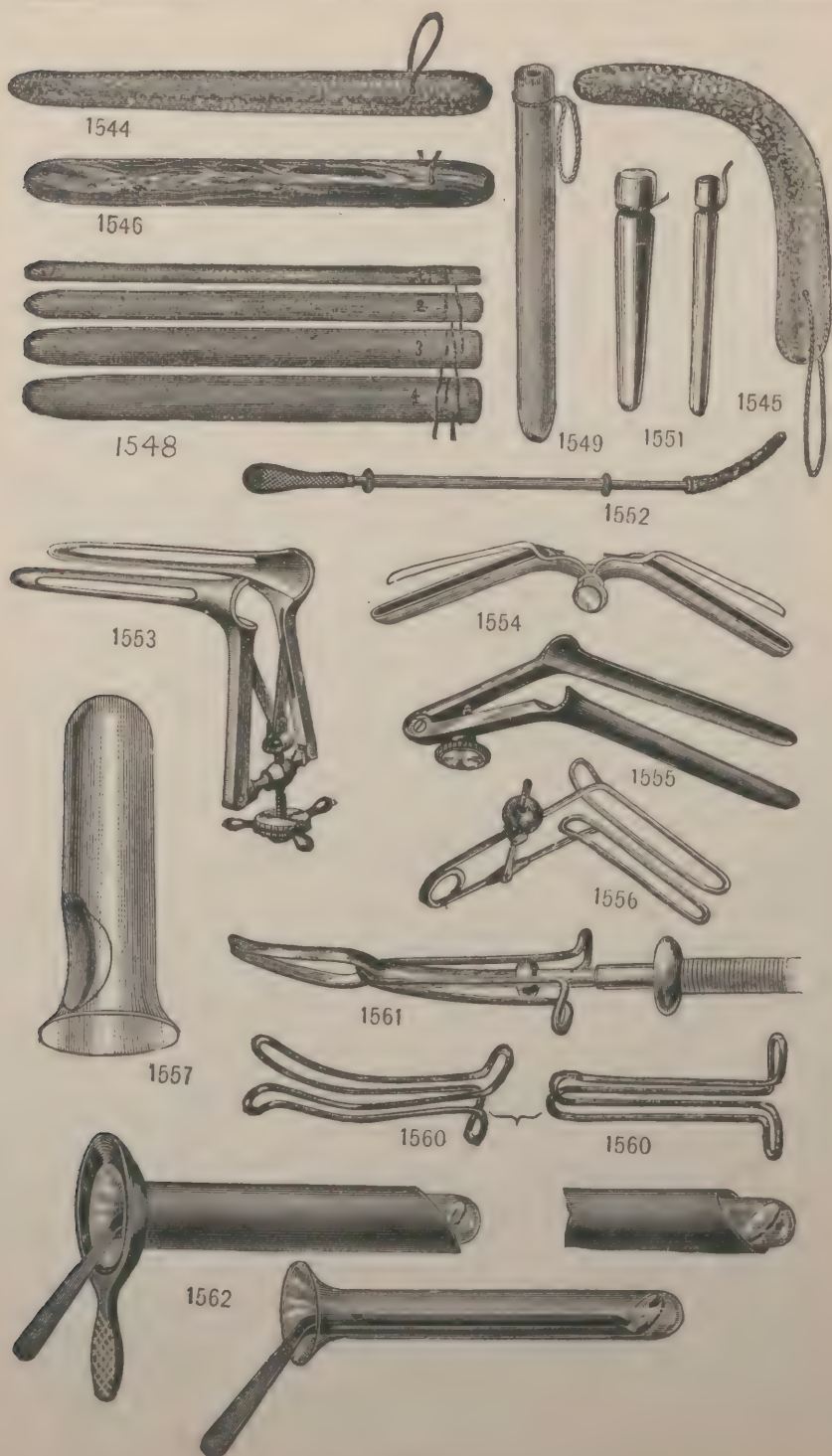
No. 1521.

1525.	Leg-holder, Kelly's, . . . . .	2 00
1526.	“ Keen's, . . . . .	6 00
1530.	Uterine Dilator, Nelson's, . . . . .	4 00
1531.	“ “ Baer's-Ellinger's, with screw, . . . . .	6 00
1532.	“ “ Goodell's heavy, aseptic, . . . . .	7 50
1533.	“ “ Wilson's, 3 sizes, . . . . . each	4 00
1534.	“ “ Wylie's, . . . . .	3 00
1535.	“ “ “ improved, with set screw, . . . . .	3 50
1536.	“ “ Wathen's, . . . . .	5 50
1537.	“ “ Nott's, . . . . .	2 25
1538.	“ “ Atlee's, . . . . .	2 25
1539.	“ “ Palmer's, . . . . .	3 50
1540.	“ “ Hegar's, hard rubber, 9 sizes, . . . . . each	75
1541.	“ “ Hank's “ “ 10 “ “ “ “	40
1542.	“ “ Barnes', 3 sizes, . . . . . “	60
1543.	Vaginal “ Hank's, 10 sizes, . . . . . “	90
1544.	Sponge Tent, carbolized, straight, . . . . .	10
1545.	“ “ “ curved, . . . . .	12
1546.	Sea Tangle Tent, hollow, . . . . .	15
1547.	“ “ “ solid, . . . . .	15
1548.	Elm Tent, straight, solid, . . . . .	10
1549.	“ “ “ hollow, . . . . .	15
1550.	“ “ “ curved, solid, . . . . .	20
1551.	Tupelo Tent, . . . . .	15
1552.	Tent Introducer and Expeller, . . . . .	50
1553.	Female Urethral Speculum, Sampson's, . . . . .	4 50
1554.	“ “ “ Skeene's, . . . . .	1 50
1555.	“ “ “ Caro's, . . . . .	1 25

The boldface numbers represent instruments illustrated.









# 186 WASHINGTON ST., BOSTON.

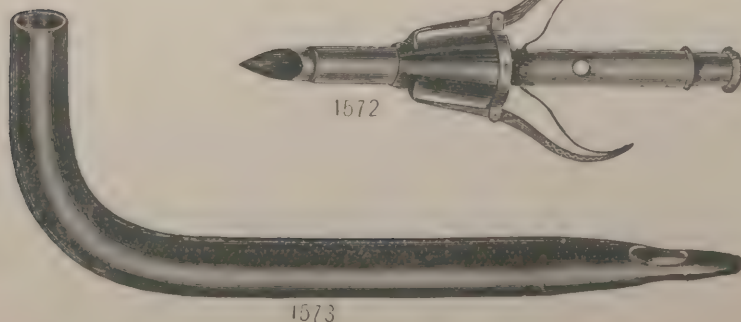
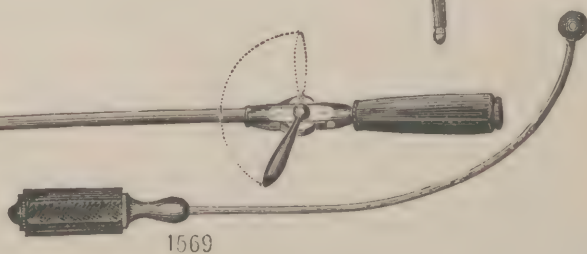
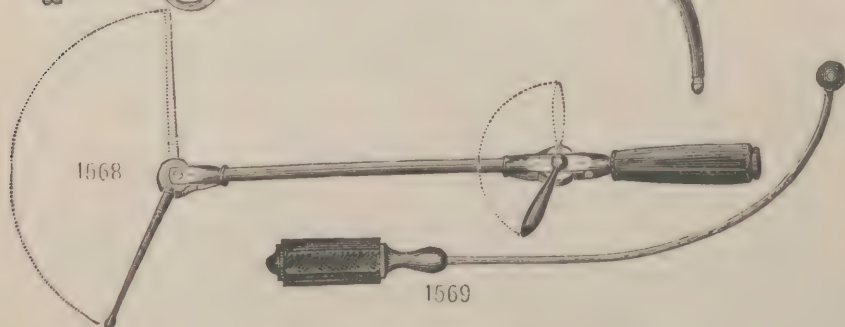
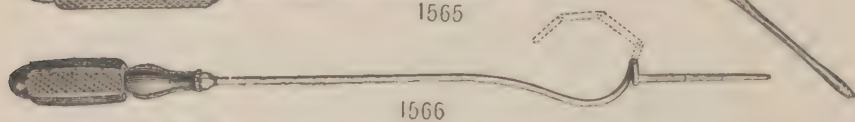
## GYNÆCOLOGICAL INSTRUMENTS.—Continued.

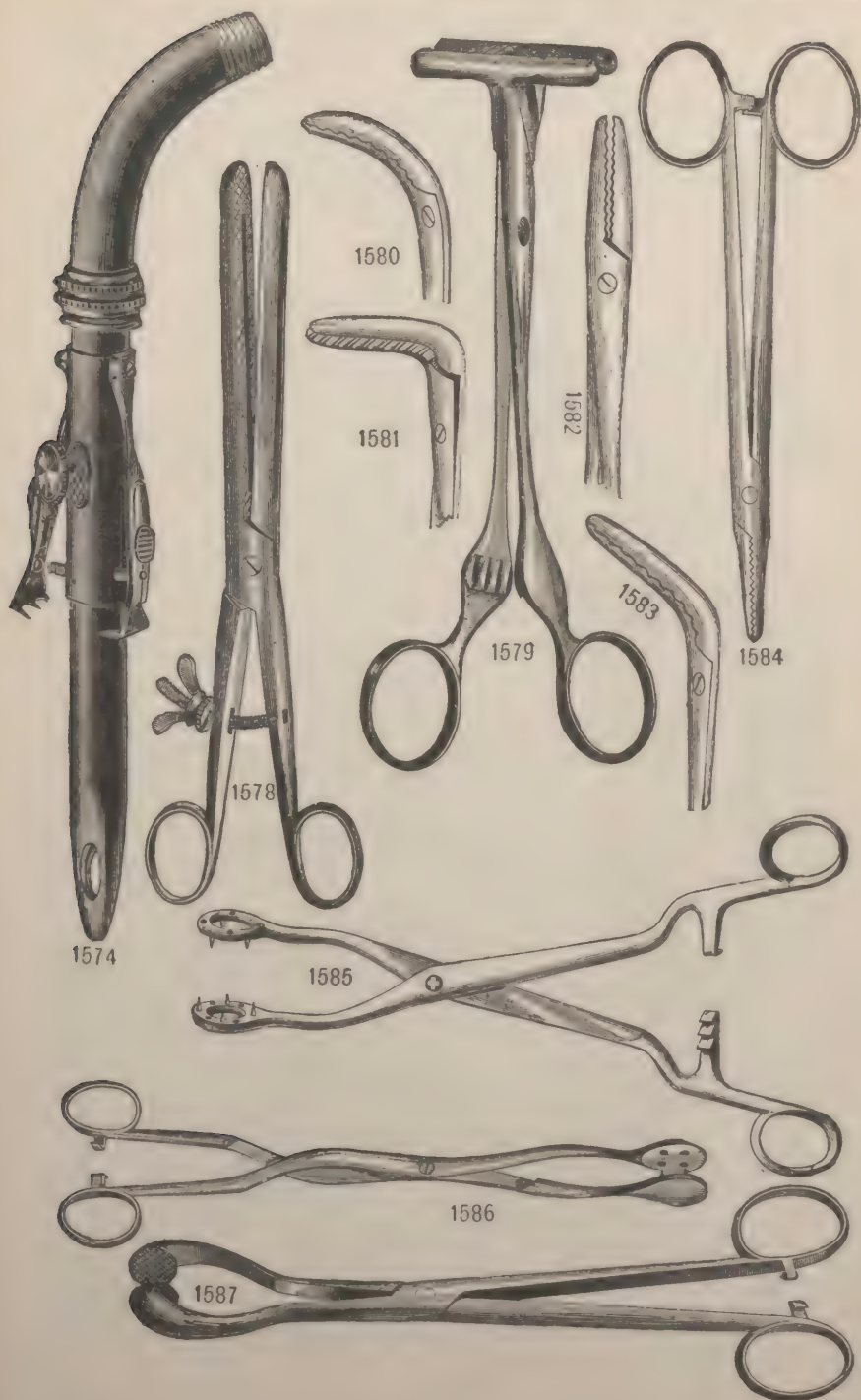
NO.		PRICE.
1556.	Female Urethral Speculum, Skeene's modification of Folsom's, . . .	\$1 00
1557.	Vaginal Dilator, Sims', glass, 6 sizes, . . . . . each	35
1558.	“ “ “ hard rubber, 6 sizes, . . . . . “	60
1560.	Outerbridge's Instruments for Treatment of Sterility, 3 sizes curved and 3 sizes straight, silver, . . . . . each	50
1561.	Introducer for Outerbridge's Instruments, . . . . .	2 00
1562.	Endoscope, Skeene's, . . . . .	2 25
1565.	Uterine Repositor, Sims', . . . . .	3 75
1566.	“ “ Emmet's, . . . . .	3 25
1567.	“ “ Elliott's, . . . . .	2 50
1568.	“ “ Ludnam's, . . . . .	3 50
1569.	“ Elevator, Guernsey's, . . . . .	1 00
1570.	Ovariectomy Trocar, . . . . .	3 00
1571.	“ “ Emmet's, . . . . .	3 25
1572.	“ “ Spencer Wells', . . . . .	7 50
1573.	“ “ Hank's modification of Tait's, . . . . .	3 50
1574.	“ “ Lawson Tait's, . . . . .	13 50
1578.	Clamp Forceps, Spencer Wells', . . . . .	6 00
1579.	Pedicle “ T-shape, Spencer Wells', . . . . .	3 75
1580.	“ “ curved, “ “ . . . . .	3 50
1581.	“ “ angular, “ “ . . . . .	3 50
1582.	“ “ straight, “ “ . . . . .	3 50
1583.	“ “ obtuse angle, “ “ . . . . .	3 50
1584.	Torsion “ Spencer Wells', . . . . .	2 75
1585.	Tumor “ Wilson's, . . . . .	4 50
1586.	“ “ Nelaton's, . . . . .	2 75
1587.	Sac “ Spencer Wells', . . . . .	3 00
1588.	“ “ Thomas', . . . . .	2 50
1589.	Abdominal Retractor, Keen's, . . . . .	5 50
1590.	Ovariectomy Clamp, Dawson's, . . . . .	6 00
1591.	“ “ Atlee's, . . . . .	4 50
1592.	“ “ Spencer Wells', . . . . .	4 50
1593.	“ “ Thomas', . . . . .	3 50
1594.	“ “ Lawson Tait's, . . . . .	8 00
1595.	“ “ Keith's, . . . . .	7 50

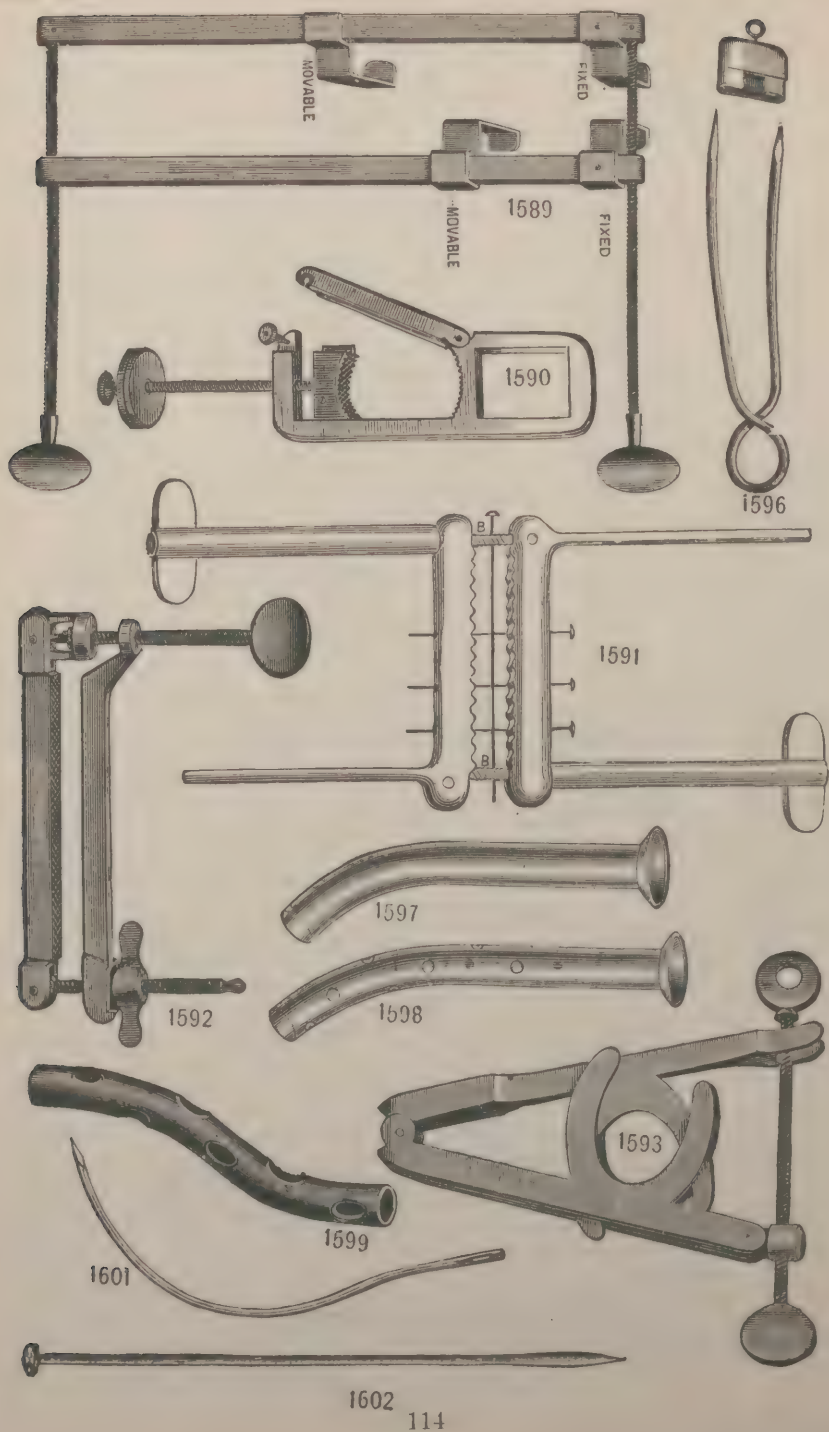
### HÆMOSTATIC FORCEPS. SEE PAGE 17.

1596.	Borck's Cyst Elevator, . . . . .	1 15
1597.	Drainage Tube, glass, . . . . .	40
1598.	“ “ “ perforated, . . . . .	50
1599.	“ “ soft rubber, . . . . . per foot	15
1600.	“ “ hard “ . . . . .	75
1601.	Needle, Goodell's, . . . . .	20
1602.	Suture and Transfixing Pins, . . . . .	15

The boldface numbers represent instruments illustrated.









## GYNÆCOLOGICAL INSTRUMENTS—Continued.

NO.		PRICE.
1603.	Drainage Tube, double, hard rubber, 'Thomas', . . . . .	\$1 75
1610.	Kelly's Pad for Perineal, Cervical, and Rectal Operations, . . .	3 50
1611.	" " " Surgical Operations, . . . . .	4 50
1612.	" " " Ovariectomy, . . . . .	5 00
1613.	Douche, japanned tin, 1 gallon, with 6 feet tubing and hard rubber vaginal pipe, . . . . .	1 75
1614.	Perfection Douche, . . . . .	6 50
1615.	Vaginal Irrigator, with recurrent tube, Scharf's, . . . . .	2 25
1616.	" " Bodenhamer's, . . . . .	1 75
1617.	" " Hawley's, . . . . .	2 25
1618.	" Syringe, "Lady's," . . . . .	2 00
1619.	" Douche, tin, 1 gallon, . . . . .	1 00
1620.	Glass Jar, 1 gallon, with tubulature and 6 feet of tubing and hard rubber stop-cock, . . . . .	3 75
1623.	"Ideal" Douche and Bed-Pan combined, made of porcelain, with rubber plug when used as a bed-pan and rubber hose to attach when used as a douche, . . . . .	3 00
1624.	"Dugot" Combination Bed-Pan, . . . . .	5 00
1624½.	Bed-Pan, agate ware, . . . . .	4 00

## SYRINGES. SEE PAGE 166.

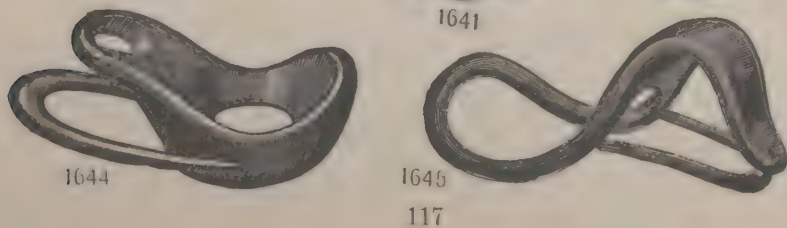
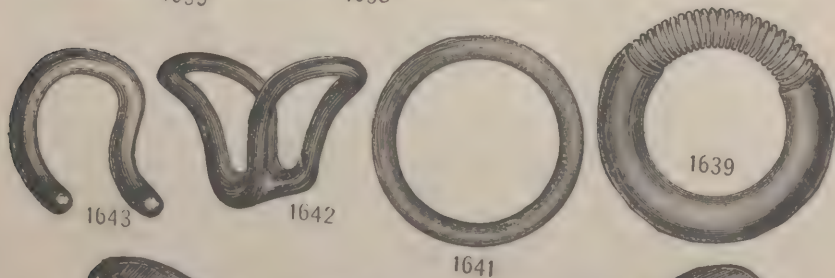
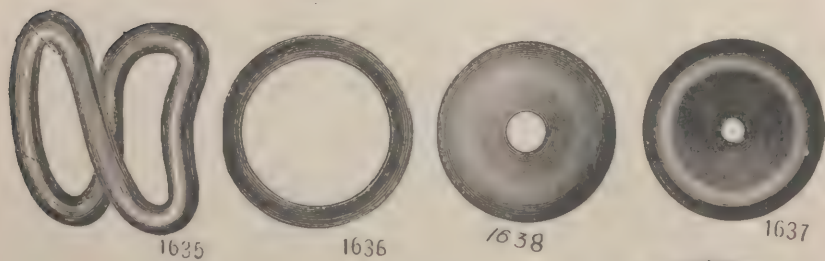
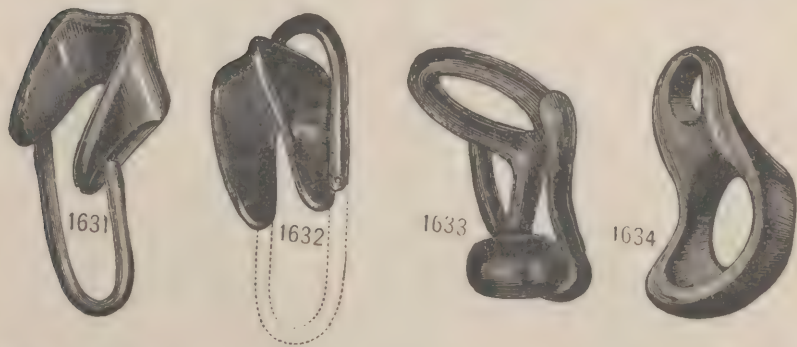
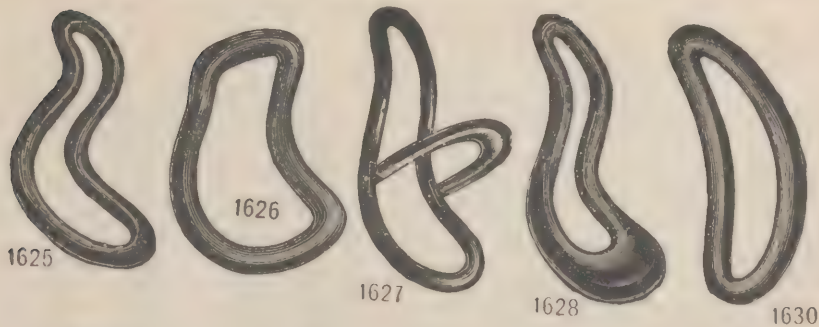
*Note.*—We are now making Specule Sounds, etc., of aluminum in addition to the nickel-plated instruments.

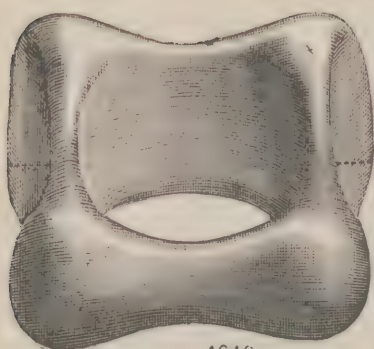
## PESSARIES.

1625.	Pessaries, hard rubber, Albert Smith's, 6 sizes, . . . . . each	25
1626.	" " " Hodge's, 6 " . . . . . "	25
1627.	" " " Thomas' anteversion, . . . . .	75
1628.	" " " " modification of Smith's, . . .	40
1629.	" " " Munde's modification of Thomas', . . .	75
1630.	" " " bow, . . . . .	25
1631.	" Thomas' anteversion, . . . . .	75
1632.	" " " . . . . .	75
1633.	" " antelexion, . . . . .	1 50
1634.	" Fowler's, . . . . .	1 25
1635.	" Gehring's anteversion, . . . . .	35
1636.	" hard rubber, ring, . . . . .	30
1637.	" " " disc, . . . . .	35
1638.	" soft " inflated, . . . . .	40
1639.	" spiral spring, ring, extra heavy, . . . . .	40
1640.	" " " " light, . . . . .	25
1641.	" ring, flexible, rubber-covered, . . . . .	30
1642.	" hard rubber, Graily Hewitt's, . . . . .	75

The boldface numbers represent instruments illustrated.



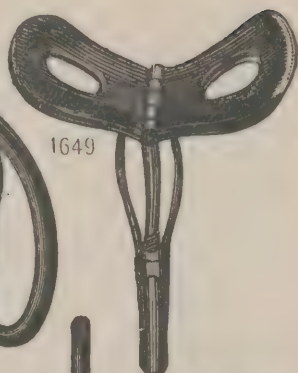




1646



1648



1649



1650



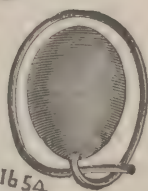
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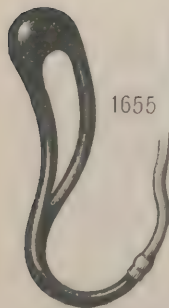
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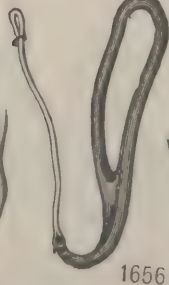
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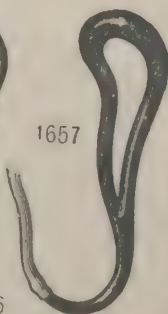
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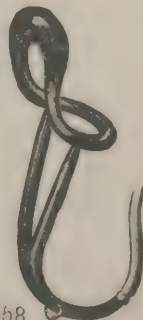
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1656



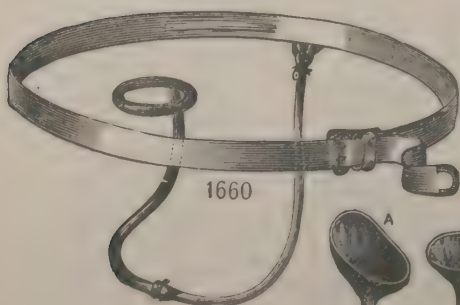
1657



1658



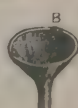
1659



1660



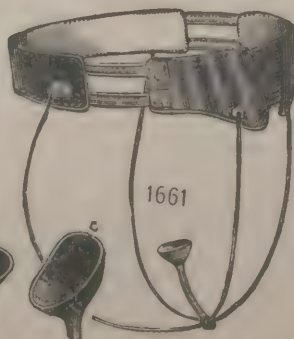
A



B



C



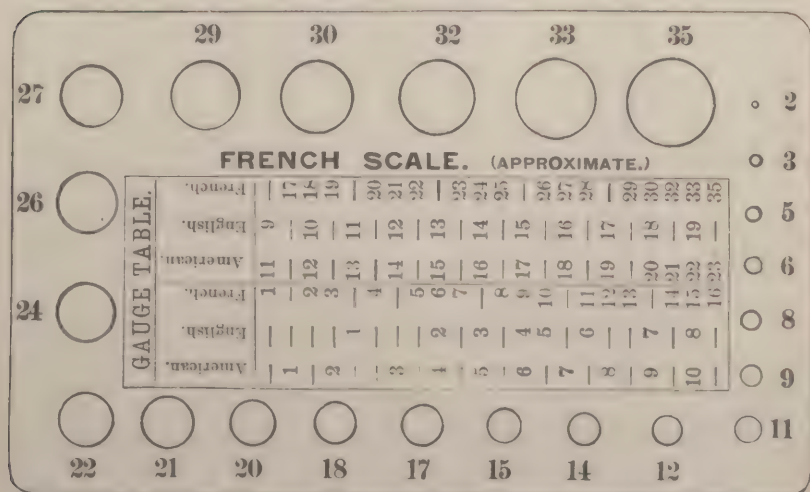
1661



## PESSARIES—Continued.

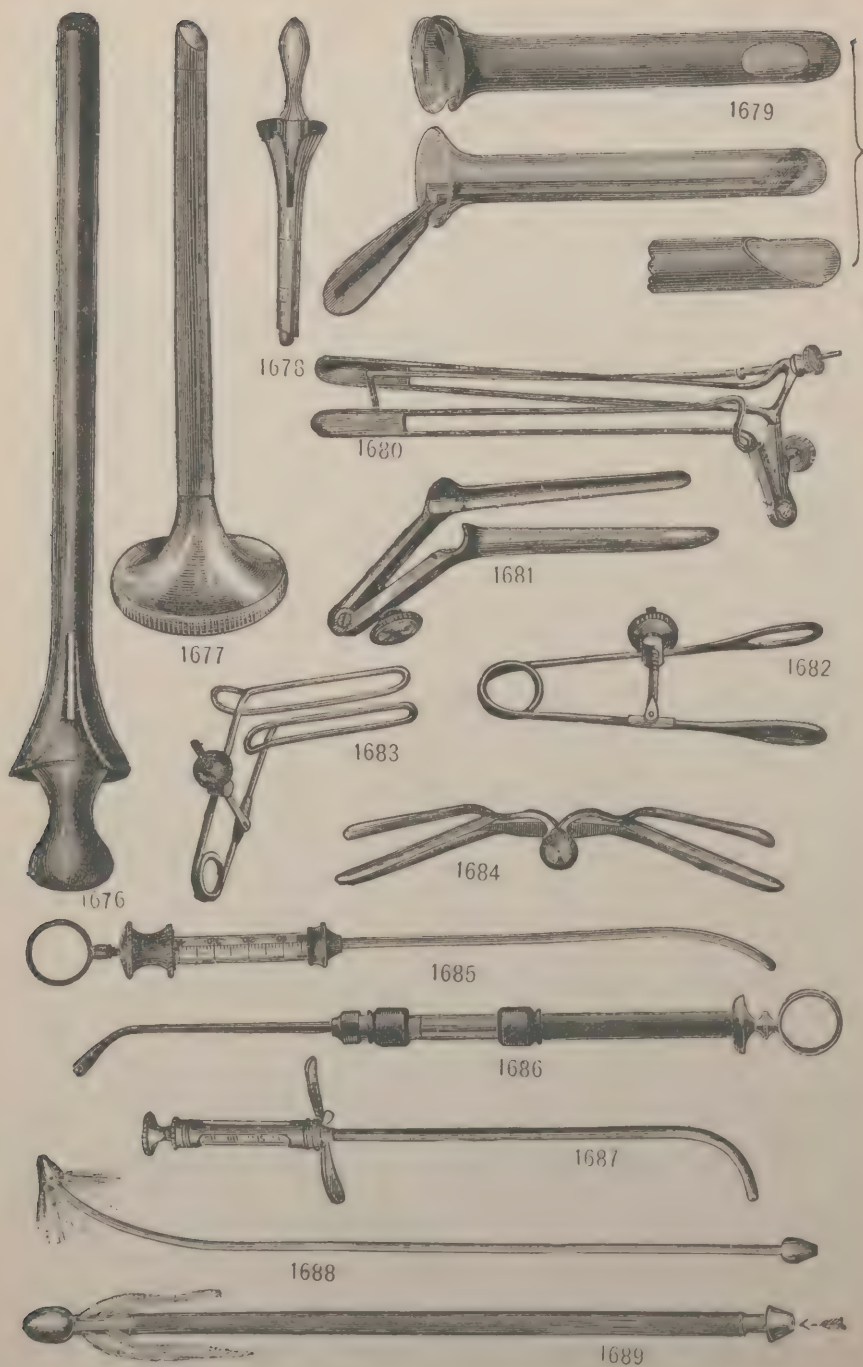
NO.		PRICE.
1643.	Pessaries, hard rubber, horse-shoe, . . . . .	\$0 35
1644.	" " " Fowler's, with bow, . . . . .	1 75
1645.	" Skeene's, cystocele, . . . . .	1 50
1646.	" soft rubber, Hofmann's, 5 sizes, . . . . . each	1 50
1647.	" hard " " 5 " . . . . .	2 00
1648.	" Kinloch's, for prolapsus of the bladder, . . . . .	1 75
1649.	" Zwank's, . . . . .	1 50
1650.	" stem, hard rubber, . . . . .	35
1651.	" " galvanic, . . . . .	1 00
1652.	" " flexible, . . . . .	75
1653.	" " Peaslee's, . . . . .	1 00
1654.	" pear shaped, inflated, . . . . .	40
1655.	" Thomas Cutter's retroversion, with belt, . . . . .	1 50
1656.	" " " anteversion, " " . . . . .	1 50
1657.	" " " " " " . . . . .	1 25
1658.	" " " " " cervical rest, . . . . .	2 25
1659.	" " " cup, with belt, . . . . .	1 50
1660.	" " " ring, " " . . . . .	1 25
1661.	" McIntosh's, with abdominal supporter, . . . . .	2 75
	A, Retroversion Cup.	
	B, Prolapsus " "	
	C, Anteversion " "	
1662.	" Wadsworth's, soft rubber, . . . . .	4 00

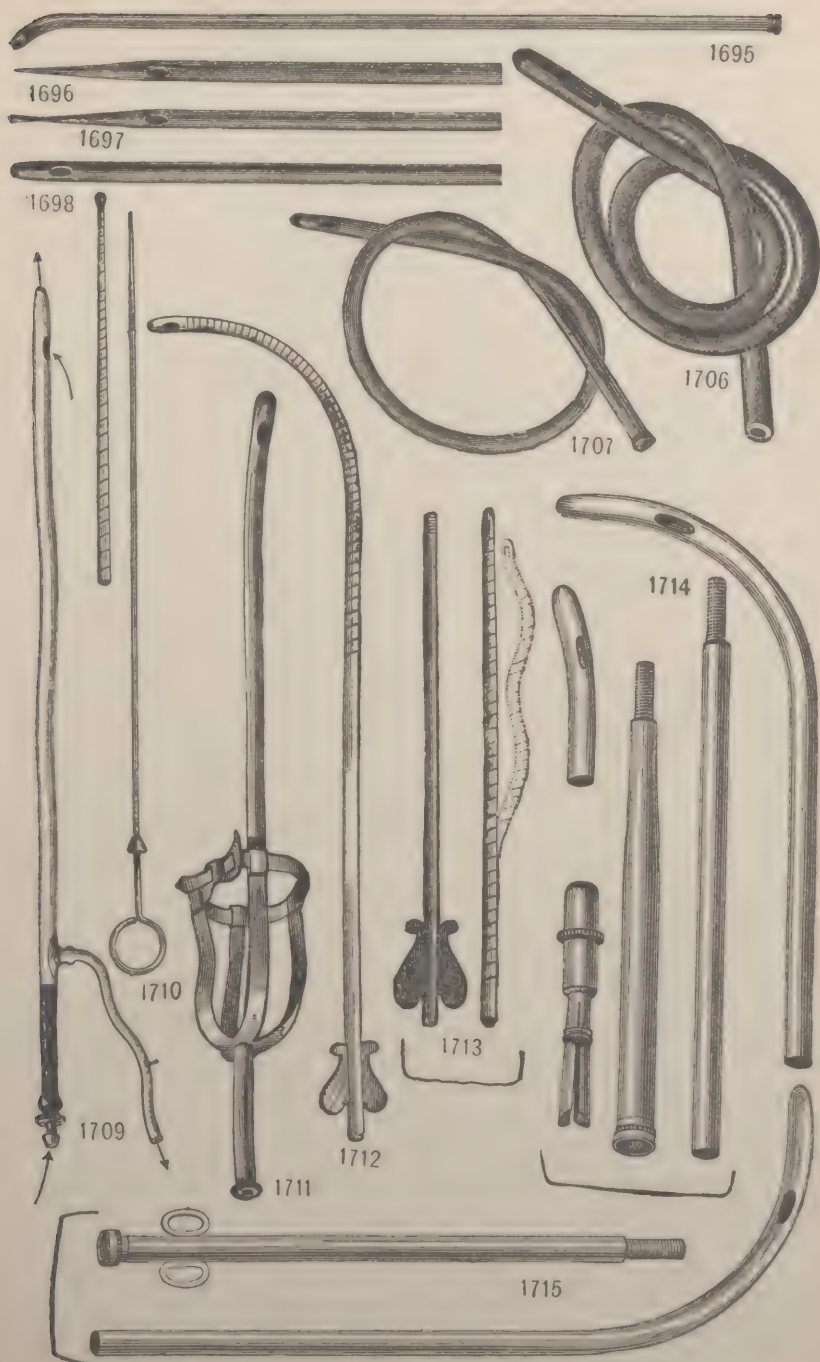
## URETHRAL INSTRUMENTS.



No. 1675.

1675. Scale for Urethral Instruments, hard rubber, . . . . . 75
- The boldface numbers represent instruments illustrated.



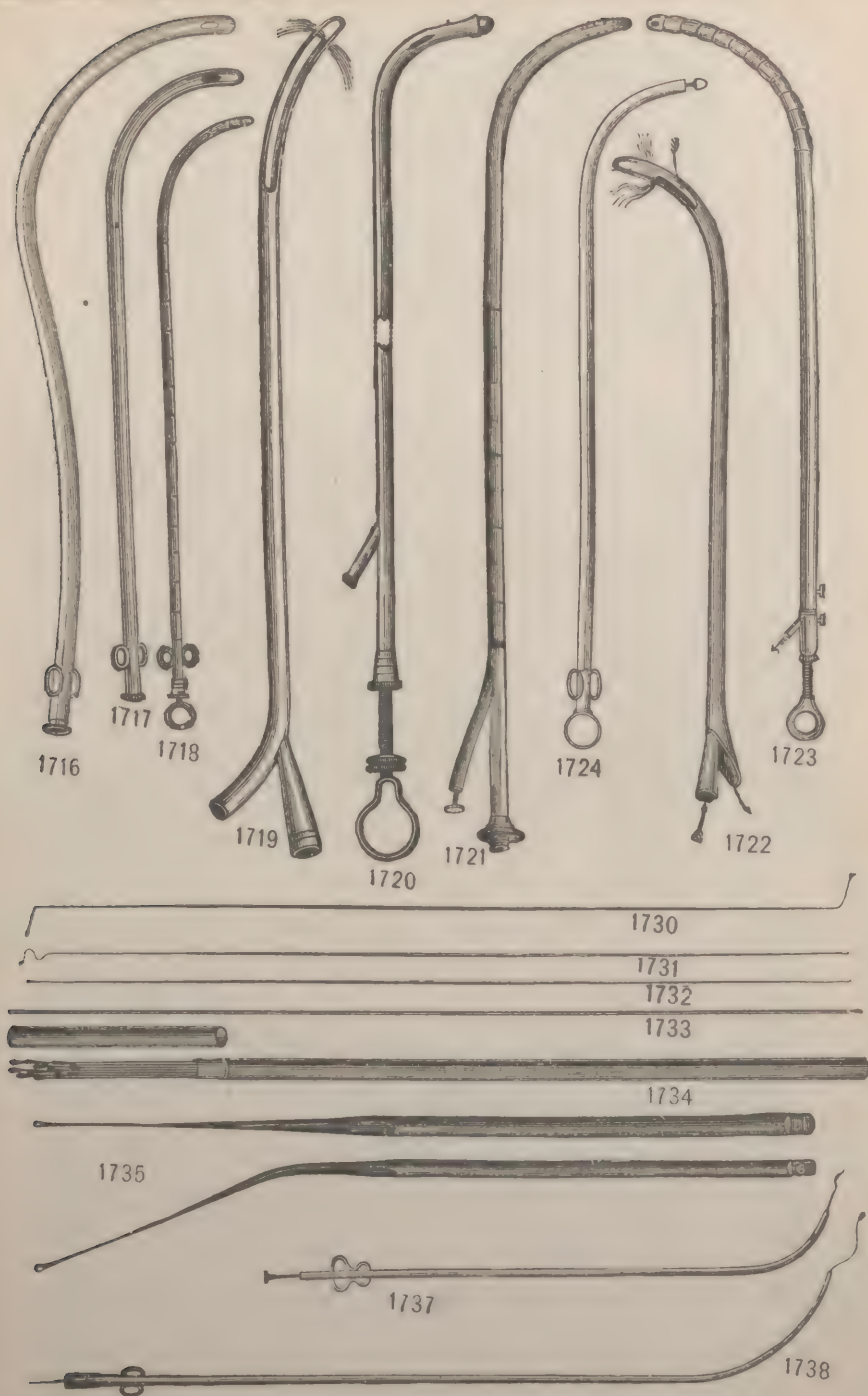


### URETHRAL INSTRUMENTS—Continued.

1690.	Urethral Speculum, Wathen's, . . . . .	6 00
1695.	Mercier's Catheter, silk, . . . . .	85
1696.	Conical " " . . . . .	75
1697.	Olivary " " . . . . .	75
1698.	Cylindrical " " . . . . .	65
1699.	Mercier's " Belfast linen, . . . . .	75
1700.	Conical " " " . . . . .	60
1701.	Olivary " " " . . . . .	60
1702.	Cylindrical " " " . . . . .	50
1703.	Mercier's " lisle thread, . . . . .	45
1704.	Olivary " " " . . . . .	40
1705.	Cylindrical " " " . . . . .	35
1706.	Jacques' " depressed eye, . . . . .	50
1707.	Nelaton's " soft rubber, . . . . .	30
1708.	English Web " . . . . .	15
1709.	Soft Rubber, Double Current Catheter, . . . . .	I 85
1710.	Otis' Prostatic Guide for Soft Rubber Catheters, . . . . .	75
1711.	Catheter-holder, . . . . .	40
1712.	Flexible Catheter, Gross', . . . . .	75
1713.	" " " jointed, . . . . .	I 25
1714.	Combined Catheter, with silver Caustic-holder, . . . . .	I 75
1715.	Jointed Male Catheter, . . . . .	I 00

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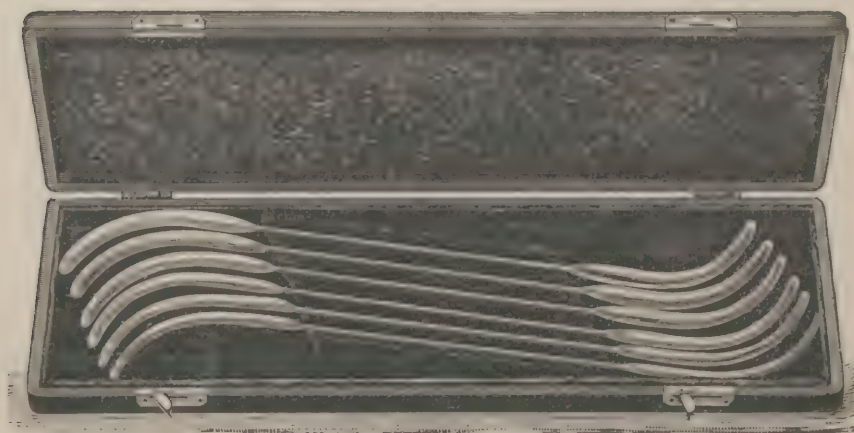




C. H. GOLDTHWAITE & CO.,



No. 1744.



No. 1745.



No. 1746.

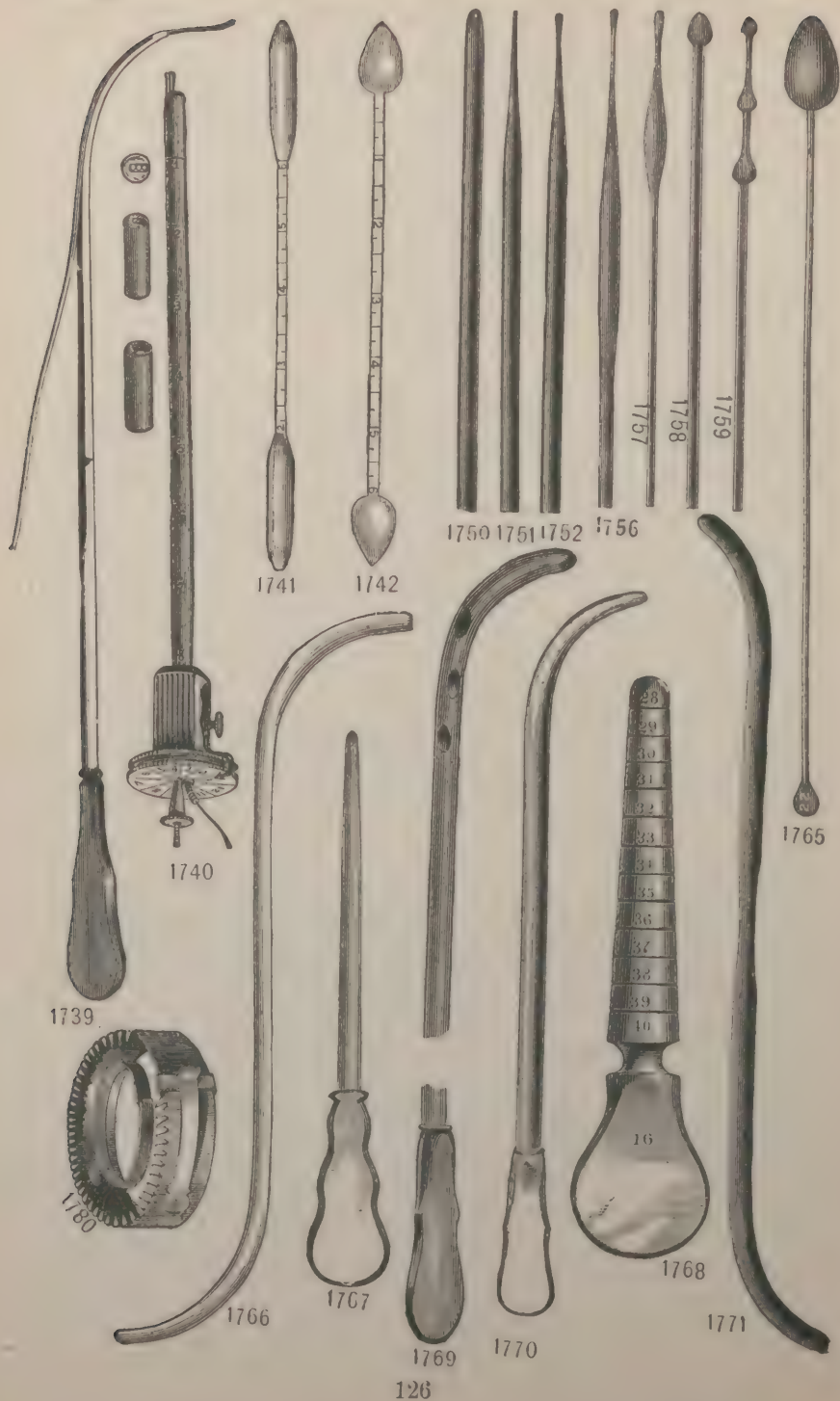
# 186 WASHINGTON ST., BOSTON.

## URETHRAL INSTRUMENTS—Continued.

NO.		PRICE.
1716.	Prostatic Catheter, plated, . . . . .	\$0 85
1717.	Male " " . . . . .	65
1718.	Syringe " Dick's, deep urethral, . . . . .	3 00
1719.	Catheter, Nott's, double current, . . . . .	1 50
1720.	" Harrison's, for introducing suppositories, . . . . .	2 00
1721.	Syringe Catheter, Bigelow's, . . . . .	3 50
1722.	Catheter, double current, . . . . .	1 50
1723.	" Squire's, vertebrated, . . . . .	2 50
1724.	Blood and Mucus Catheter, . . . . .	2 00
1730.	Filiform Bougie, whalebone, angular, . . . . .	30
1731.	" " " corkscrew, . . . . .	30
1732.	" " " olivary on both ends, . . . . .	25
1733.	" " " cylindrical, . . . . .	15
1734.	Case containing 1 dozen Filiform Bougies, olivary, . . . . .	2 25
1735.	Whalebone Bougies, Bank's, straight or angular, . . . . . each	75
1736.	" " Hunter's, . . . . .	75
1737.	Gouley's Tunneled Catheter, . . . . .	1 75
1738.	Otis' Retention " . . . . .	2 25
1739.	Gouley's Tunneled Sound, . . . . .	1 25
1740.	Eldridge's Pathfinder, . . . . .	27 00
1741.	Weiss' Double Sound, with graduated stem, . . . . .	80
1742.	" Exploring Sound, . . . . .	80
1744.	" Pocket Set of Sounds, 12 sizes, . . . . .	4 50
1745.	Fowler's Set of Sounds, . . . . .	5 00
1746.	" " Otis' Exploring Sounds, . . . . .	5 00
1750.	Bougie, cylindrical, lisle thread, . . . . .	30
1751.	" conical, " " . . . . .	40
1752.	" olivary, " " . . . . .	40
1753.	" cylindrical, Belfast linen, . . . . .	50
1754.	" conical, " " . . . . .	60
1755.	" olivary, " " . . . . .	60
1756.	" bellied, French, . . . . .	70
1757.	" " " double, . . . . .	1 00
1758.	" exploring, " . . . . .	50
1759.	" " " with 3 bulbs, . . . . .	85
1760.	" cylindrical, silk, . . . . .	70
1761.	" olivary, " . . . . .	75
1762.	" conical, " . . . . .	75
1765.	Otis' Exploring Sound, . . . . .	30
1766.	Flexible Metal " 2 sizes on each, . . . . .	85
1767.	Piffard's Meatus " . . . . .	75
1768.	" " " graduated, . . . . .	85

The boldface numbers represent instruments illustrated.

C. H. GOLDTHWAITE & CO.,

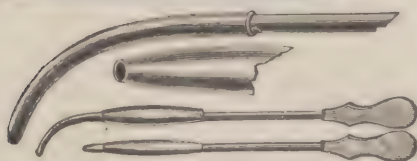




186 WASHINGTON ST., BOSTON.

## Dr. Rhoads' Improved Set of Interchangeable Bougies.

(INCLUDING 10 CURVED AND 10 MEATUS.)



No. 1775.

[An extract from *The Medical News*, June 22, 1889.]

### GROOVED BOUGIES FOR APPLYING OINTMENT TO THE URETHRA AND INTERIOR OF THE UTERUS.

By J. NEELY RHOADS, M. D.,

CHIEF OF CHILDREN'S CLINIC, JEFFERSON MEDICAL COLLEGE HOSPITAL, PHILADELPHIA.

For the past two or three years I have been using different ointments on bougies in the treatment of gonorrhoea of long standing and chronic urethritis. The results obtained were generally negative, owing, I think, to inadequate instruments, for the contraction of the meatus renders it next to impossible to reach the desired parts with the salve on the ordinary bougie or sound, the salve remaining in a large ring around the bougie at the handle upon withdrawal. And the cupped sound contains such a small number of cavities and are arranged so that the urethra is only touched with the ointment in spots in a hap-hazard way, and being made larger at the handle than at the cupped portion, gives so much pain, due to stretching of the meatus, that it must be withdrawn before the parts are properly reached or the salve dissolved. The ribbed bougie and catheter are subject to the same meatus-stretching objection. The syringe in use for carrying ointment is very inaccurate in its application, and is not, precisely speaking, an ointment-carrier, as ointments must be semi-liquid or they cannot be used.

Last fall I had several three-inch bulbs made, such as are used in my pocket-set (described in *The Medical News*, July 10, 1886, p. 54), deeply grooved on four sides, as shown full size in accompanying cut, and have used them since with gratifying results. I gave several sets of these to my friends, who speak



No. 1775.

of them very highly, reporting cases of urethritis cured or benefited, both acute and chronic, specific and non-specific, occurring in both sexes. Several cases of cervical endometritis are also being treated by this method.

I have cured several cases of chronic gonorrhoea of long standing in the male by applying the following ointment to the grooved bulbs:—

R. Argenti nitratis, . . . . .	gr. x.
Tr. benzoin comp., . . . . .	ptt. xv.
Unguenti petrolii, . . . . .	℥j. —M.

Making two or three applications per week. After applying the salve I insert the bougie in the ordinary manner, using either the straight or the curved point—preferably the straight. After the bulb passes the meatus I watch the patient's face, ascertaining by the facial expressions which are the most sensitive parts, and then allowing the instrument to remain in such a position that they shall be perfectly anointed.

Now the advantage claimed for this instrument over other ointment-carriers is the operator's ability to locate by it the exact sensitive or diseased spot of the urethra, for, as he is remembered, after the bulb of this instrument passes the meatus (the most sensitive part of the normal urethra, the passage is painless if the urethra be not inflamed; hence, the moment the patient flinches we know beyond a doubt that we have reached the diseased part. I have frequently allowed a bulbous bougie of large size to remain in position for ten and even fifteen minutes, the patient walking around my office perfectly unconcerned. We do not expect this instrument to cure every urethritic or endometritic disease, but do hope it will find a useful place as a salve-carrier.

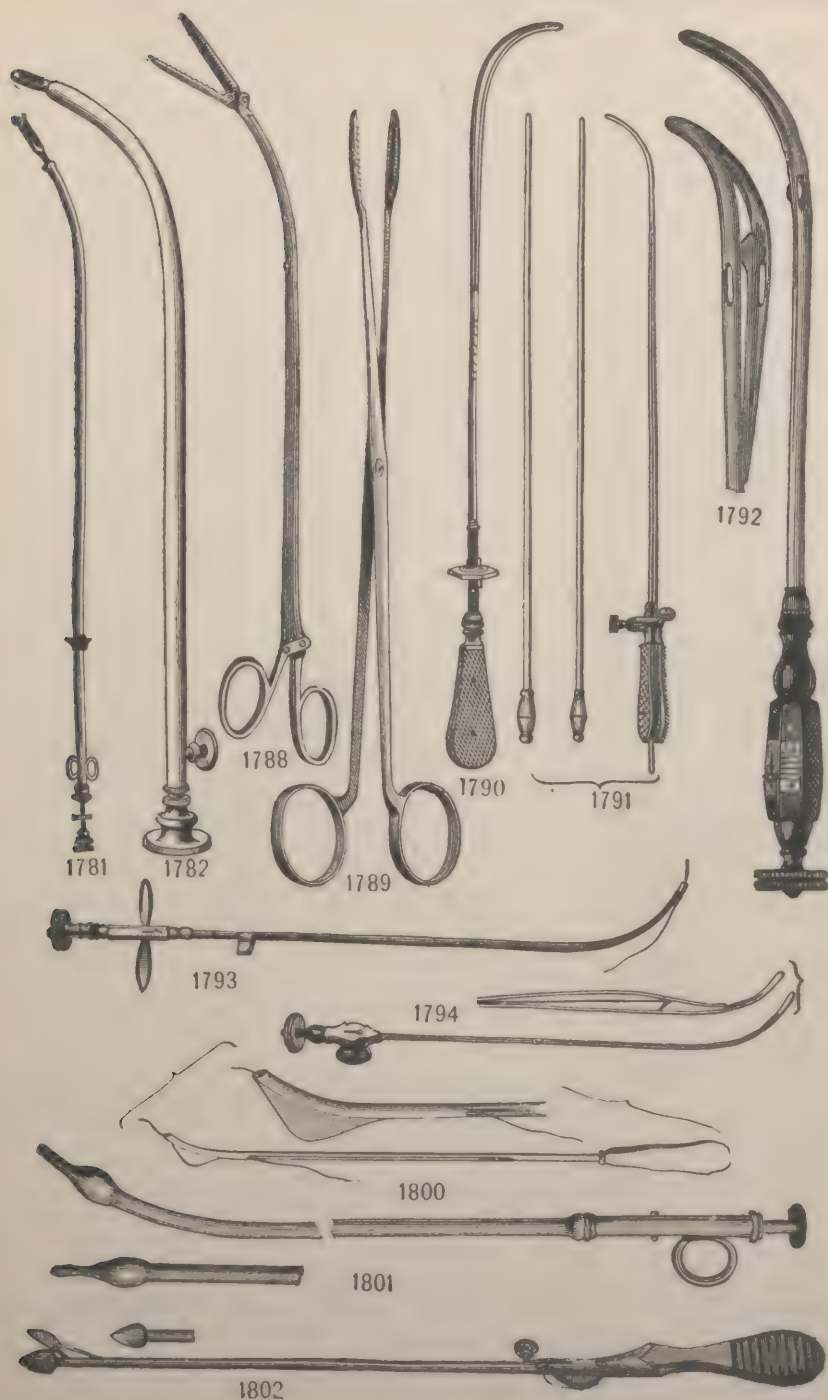
1612 SOUTH SEVENTH STREET.

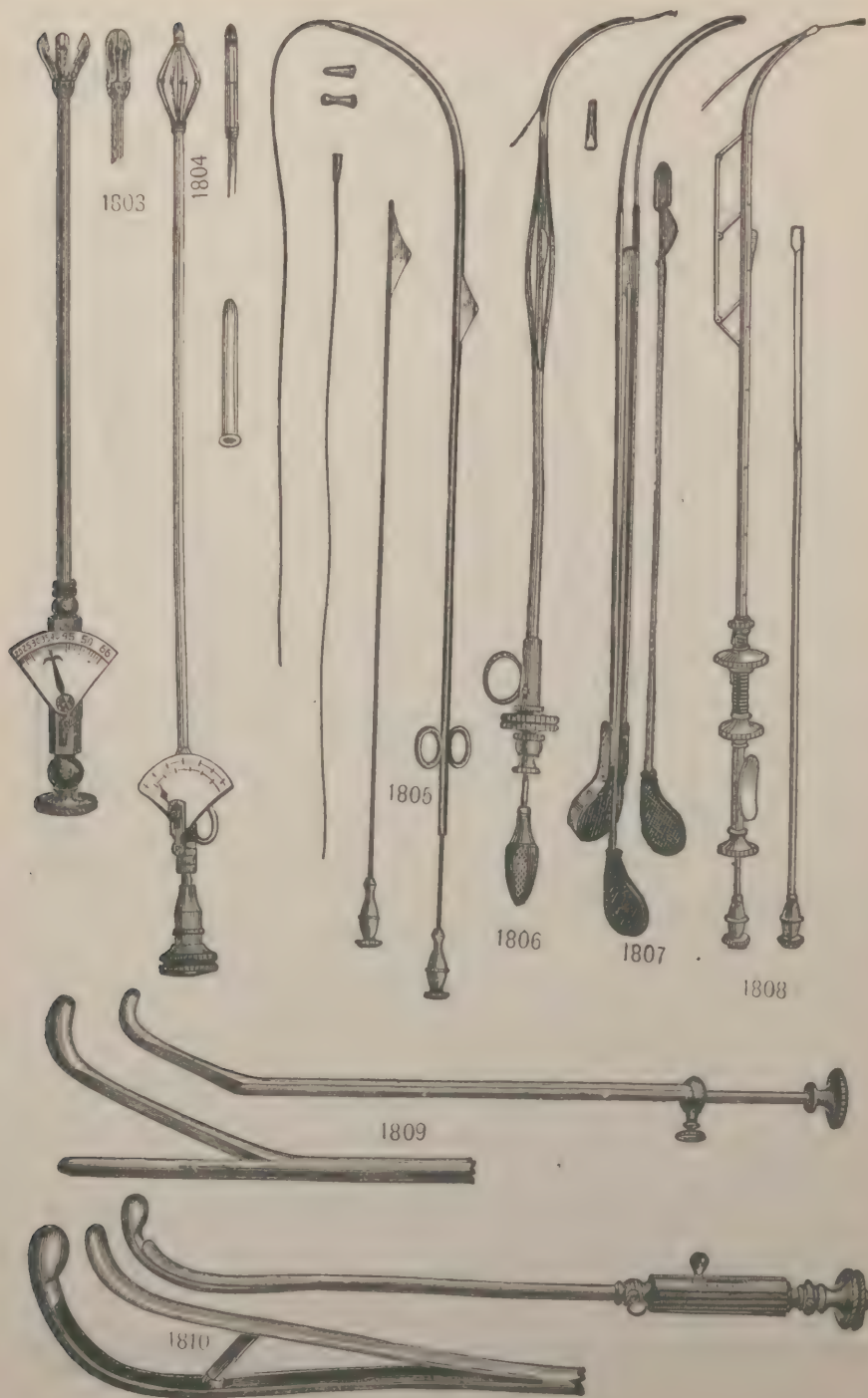
# C. H. GOLDTHWAITE & CO.,

## URETHRAL INSTRUMENTS—Continued.

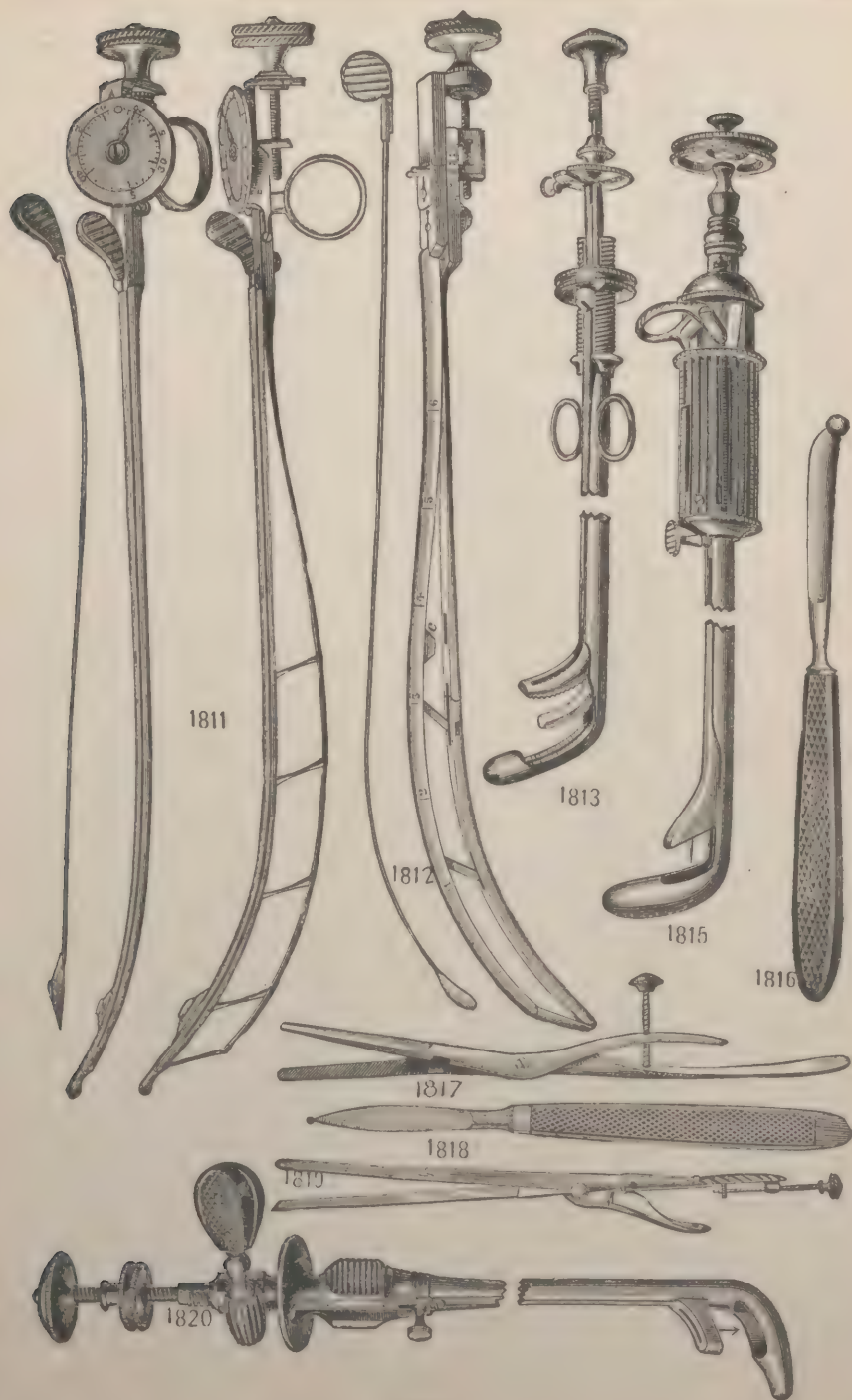
NO.		PRICE.
<b>1769.</b>	Cupped Sound for Applications, Van Buren's, . . . . .	\$1 25
<b>1770.</b>	Steel Sound, Van Buren's, . . . . .	75
<b>1771.</b>	Urethral Sound, Pratt's, 2 sizes on each, . . . . .	85
<b>1772.</b>	Case containing 6 Van Buren's Sounds, . . . . .	6 00
<b>1773.</b>	" " 12 " " . . . . .	11 50
<b>1774.</b>	" " 18 " " . . . . .	17 00
<b>1775.</b>	Rhoad's Set of Interchangeable Bougies, with 2 applying bulbs, . . . . .	8 50
<b>1780.</b>	Spermatorrhœa Ring, . . . . .	60
<b>1781.</b>	Lallemande's Porte Caustic, silver, . . . . .	2 75
<b>1782.</b>	Gross' " " " . . . . .	2 75
<b>1783.</b>	Agnew's " " " . . . . .	2 75
<b>1784.</b>	" Blood Catheter, . . . . .	1 50
<b>1785.</b>	Gross' " " . . . . .	2 25
<b>1787.</b>	Psychrophor, Winternitz's, for application of cold to the urethra, . . . . .	1 50
<b>1788.</b>	Urethral Forceps, Mathieu's, . . . . .	4 50
<b>1789.</b>	" " Thompson's, . . . . .	1 75
<b>1790.</b>	" Dilators, Stearn's improved, . . . . .	3 75
<b>1791.</b>	" " Holt's, . . . . .	13 50
<b>1792.</b>	" " Gross', . . . . .	10 00
<b>1793.</b>	" " Gouley's, . . . . .	7 50
<b>1794.</b>	" " Thompson's, . . . . .	7 50
<b>1800.</b>	Urethrotome, Gouley's, . . . . .	3 75
<b>1801.</b>	" Gross', straight or curved, . . . . . each	4 00
<b>1802.</b>	" " latest pattern, . . . . .	4 50
<b>1803.</b>	Urethrometer, " . . . . .	15 00
<b>1804.</b>	" Otis', in case, . . . . .	13 50
<b>1805.</b>	Urethrotome, Maisonneuve's, . . . . .	10 00
<b>1806.</b>	" dilating, Gouley's, . . . . .	9 00
<b>1807.</b>	" " Stearn's, . . . . .	9 00
<b>1808.</b>	" " Otis', No. 2, . . . . .	30 00
<b>1809.</b>	Mercier's Prostatic Dilator, . . . . .	7 50
<b>1810.</b>	Gouley's " " . . . . .	12 00
<b>1811.</b>	Urethrotome, dilating, Otis', curved or straight, . . . . .	20 00
<b>1812.</b>	Divulsor and Urethrotome, Hunter's, . . . . .	25 00
<b>1813.</b>	Mercier's Incisor and Ecraseur combined, . . . . .	45 00
<b>1814.</b>	" Excisor, . . . . .	30 00
<b>1815.</b>	Gouley's Prostatectome, . . . . .	30 00
<b>1816.</b>	Meatome, Piffard's, . . . . .	85
<b>1817.</b>	" Gouley's, . . . . .	2 25
<b>1818.</b>	" Otis', . . . . .	1 50
<b>1819.</b>	Bistoury Caché, Civiale's, . . . . .	4 00
<b>1820.</b>	Mercier's Latest Prostatic Excisor, . . . . .	35 00

The boldface numbers represent instruments illustrated.









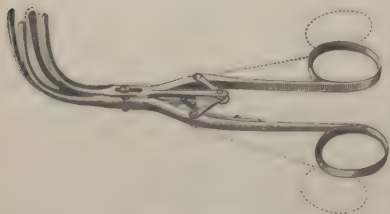
URETHRAL INSTRUMENTS—Continued.

NO.		PRICE.
1825.	Vesical Director, Thompson's, . . . . .	\$2 00
1826.	Bladder Forceps, " double curved, . . . . .	4 25
1827.	" " " curved, . . . . .	4 25
1828.	" " " bayonet curve, . . . . .	4 25
1829.	Arnott's Grooved Probe, . . . . .	1 00
1830.	Tenaculum, Gouley's, . . . . .	1 00
1831.	Bistoury, " . . . . .	1 15
1832.	Dome Trocar Catheter, Fitch's, . . . . .	4 50
1833.	Orchitis Compressor, Carroll's, . . . . .	1 00
1834.	" " Hawes', . . . . .	2 50
1835.	Varicocele Clamp, Lewis', . . . . .	3 00
1836.	Scrotal " Henry's, . . . . .	6 00
1837.	Varicocele " King's, . . . . .	4 50
1838.	" Compressor, Miliano's, . . . . .	1 25
1839.	" Needle, Keyes', . . . . .	1 00
	Suspensories, see page 197	
	Urethral Syringes, " " 122	
	Urinals, " " 169	

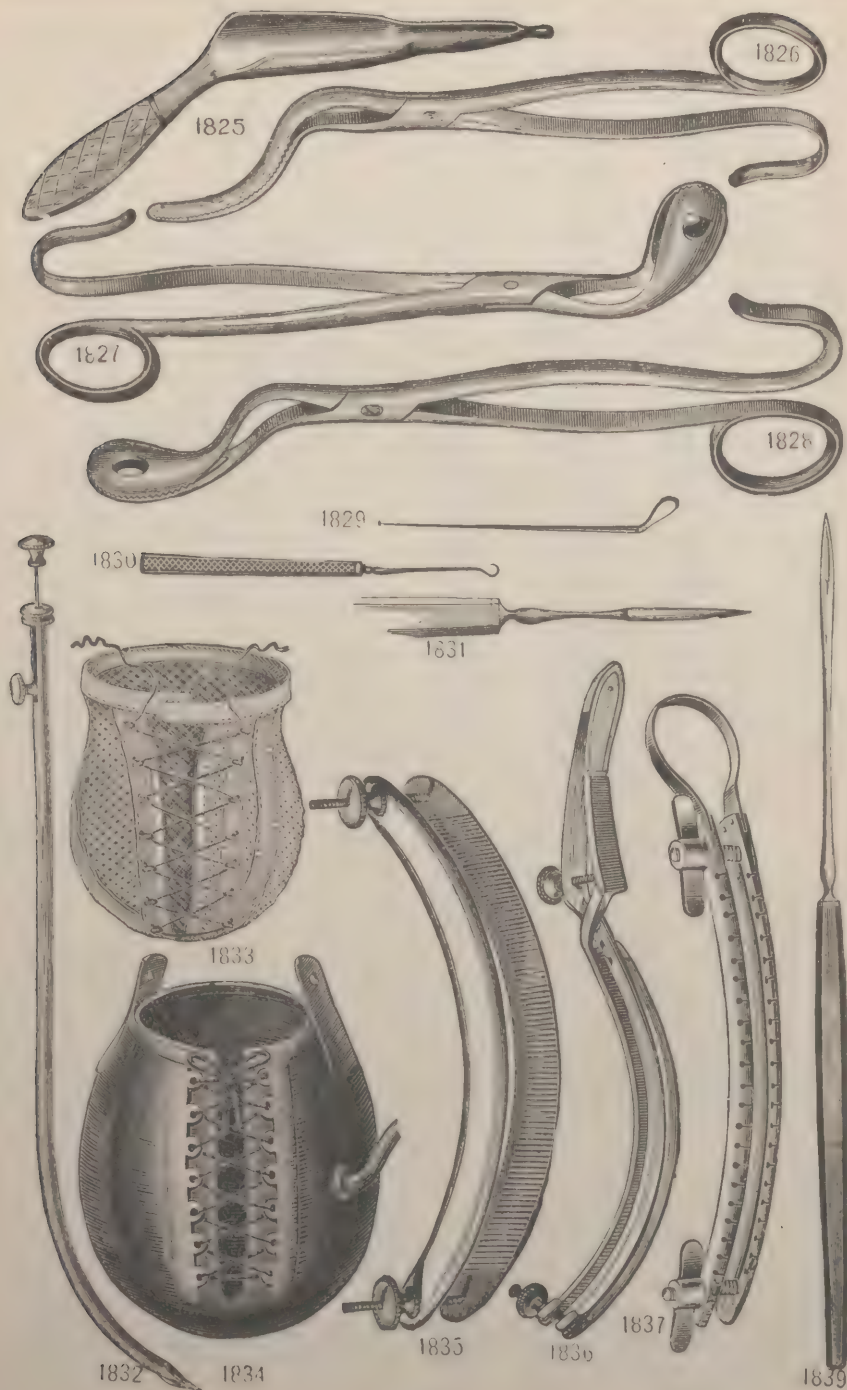
PHIMOSIS INSTRUMENTS.

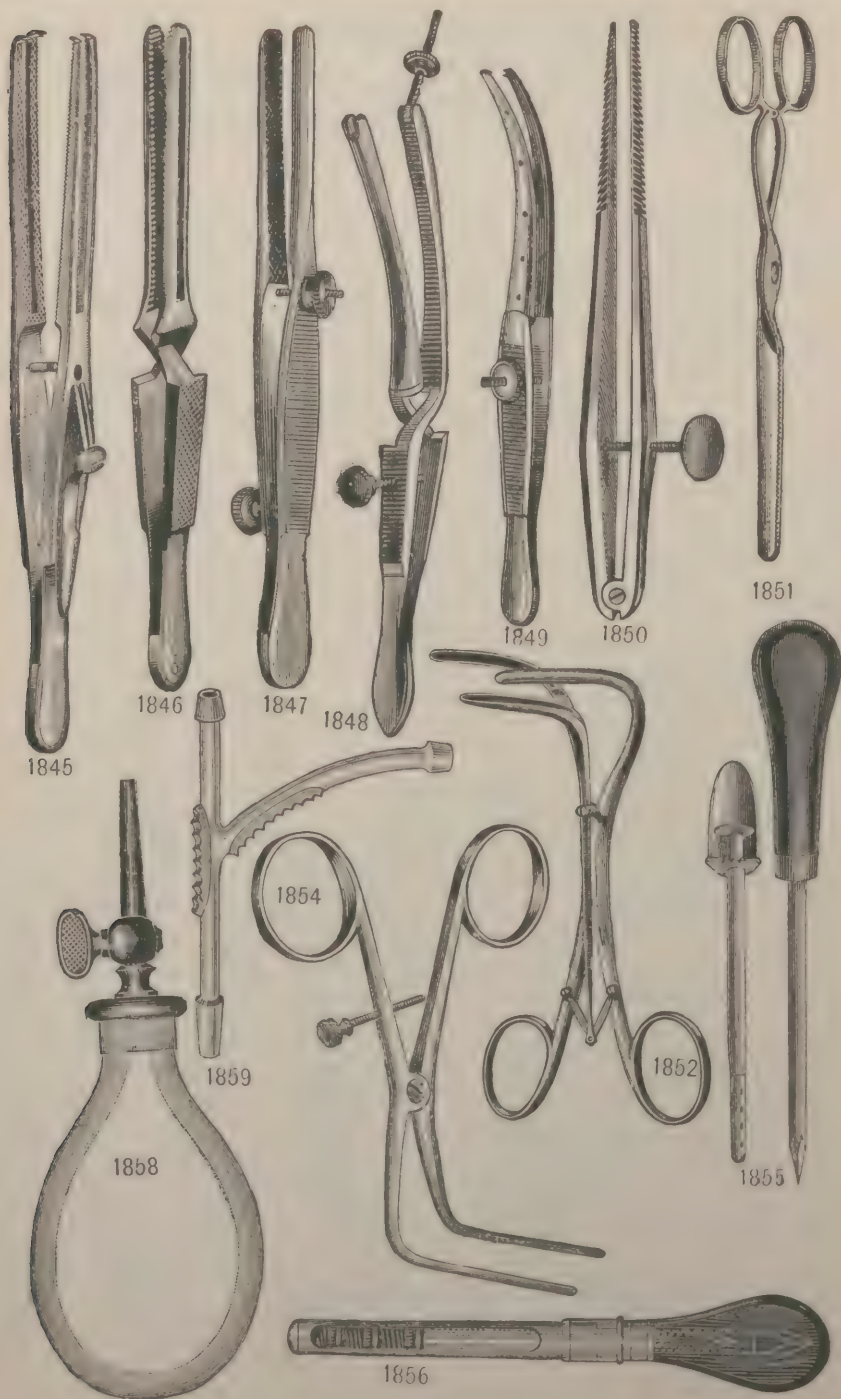
1845.	Phimosis Forceps, Knox's, . . . . .	3 00
1846.	" " Skillern's, . . . . .	2 00
1847.	" " Rogers', . . . . .	2 25
	1848. Phimosis Forceps, Henry's, . . . . .	3 00
	1849. " " Fisher's, . . . . .	2 25
	1850. " " Levis', . . . . .	2 00
	1851. " " Ricord's, . . . . .	2 25
	1852. " " Nelaton's, . . . . .	3 75
	1853. Preputial Dilator, Stewart's, . . . . .	6 50
	1854. " Forceps, Hutchin- son's, . . . . .	1 75
1855.	Trocar and Cannula, 3 sizes, . . . . . each	90
1856.	Set of 3 Trocars and Cannulas, . . . . .	3 50
1857.	" " 4 " " " . . . . .	4 50
1858.	Bag and Stopcock, for hydrocele, . . . . .	1 75
1859.	Double Tube for Soft Catheter, for washing out bladder, . . . . .	60

No. 1853.

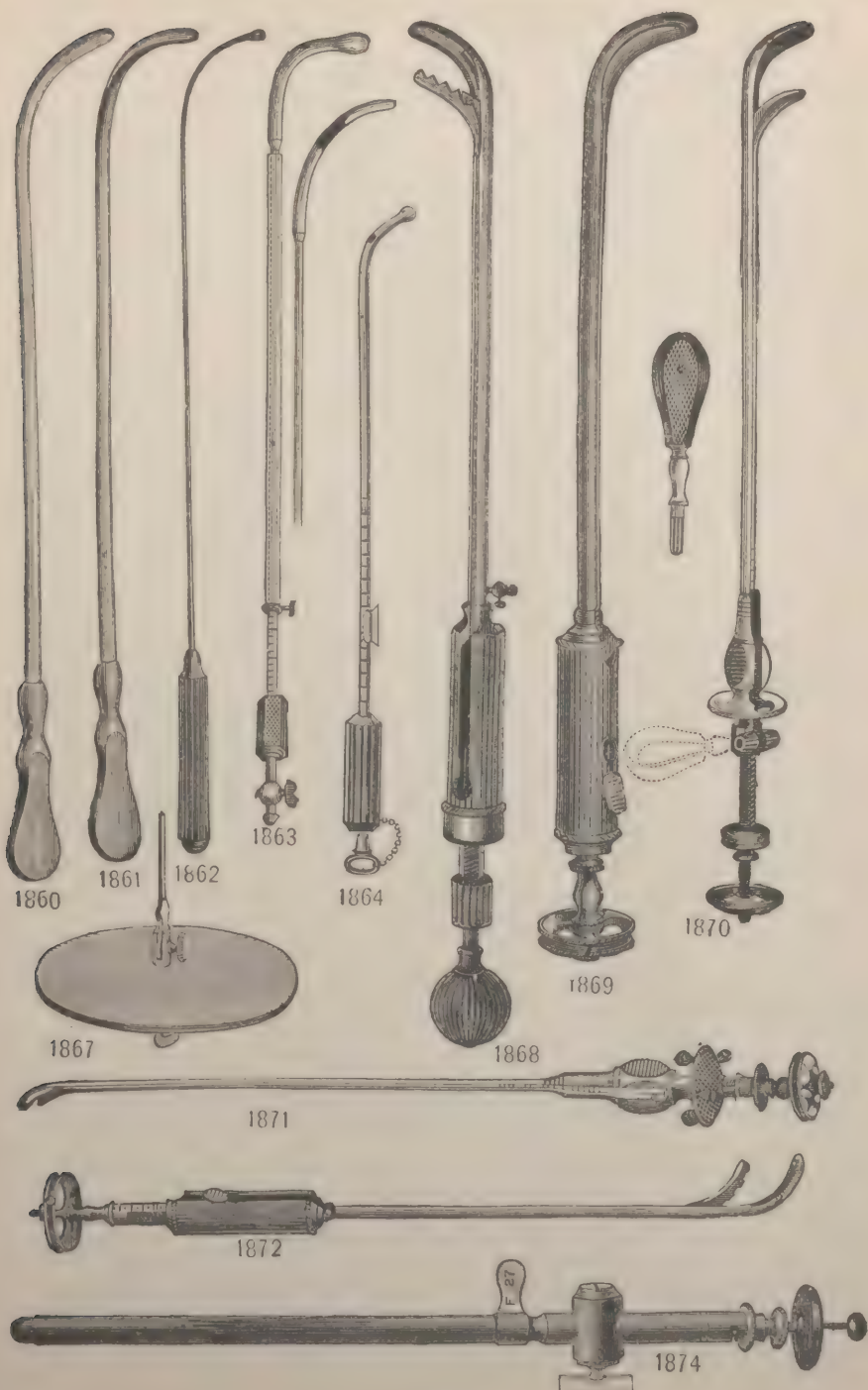


The boldface numbers represent instruments illustrated.





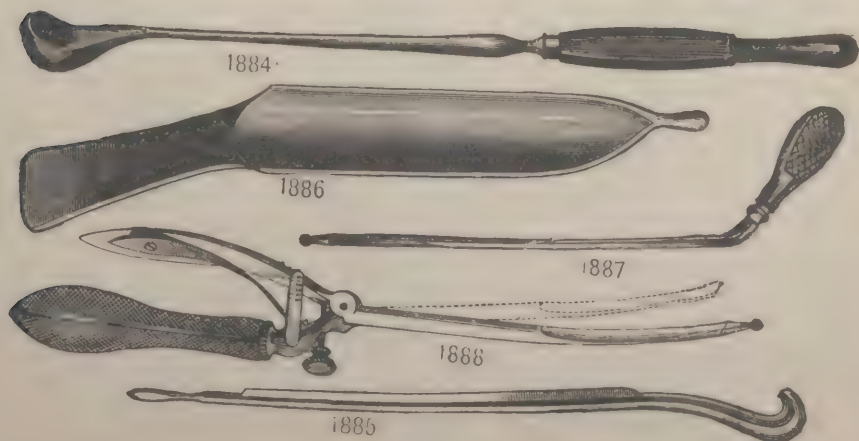
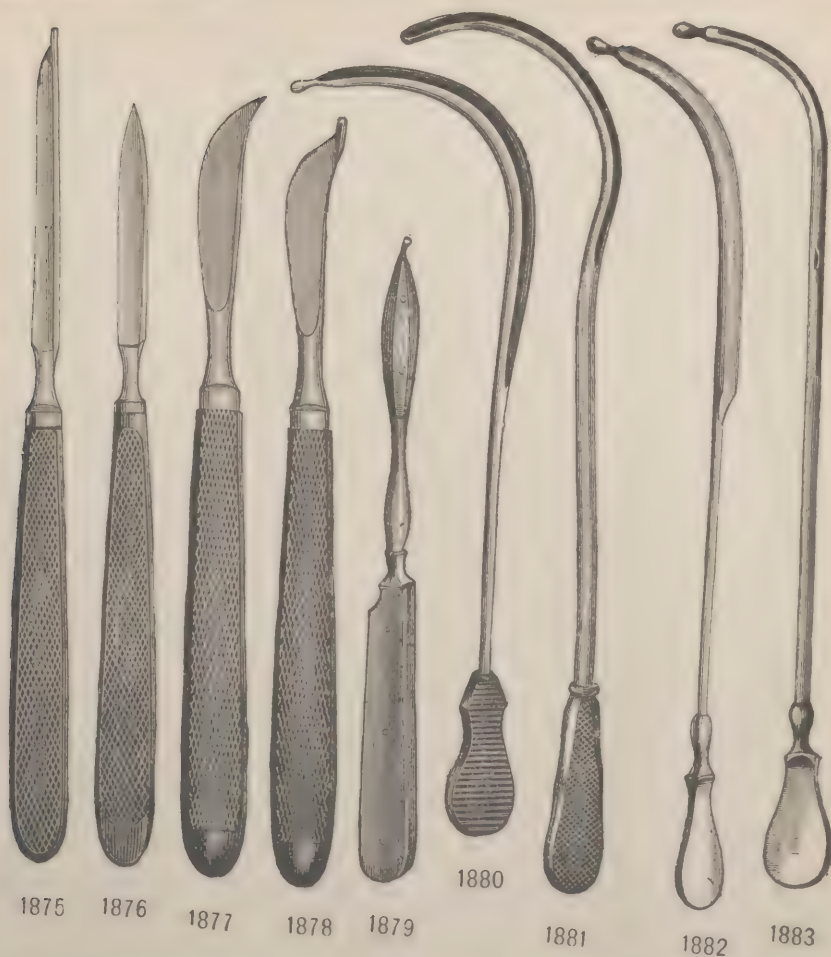




LITHOTOMY INSTRUMENTS.

NO.		PRICE.
<b>1860.</b>	Stone Sound, plain, steel, . . . . .	\$1 10
<b>1861.</b>	“ “ Gouley's, . . . . .	1 15
<b>1862.</b>	“ “ Little's, . . . . .	1 50
<b>1863.</b>	“ “ Otis', . . . . .	3 50
<b>1864.</b>	“ “ Thompson's, . . . . .	2 25
<i>1865.</i>	“ “ Andrews', . . . . .	1 25
<i>1866.</i>	“ “ Keyes', . . . . .	2 00
<b>1867.</b>	Sounding Board, Bilroth's, . . . . .	1 25
<b>1868.</b>	Lithotrite, Bigelow's, . . . . .	30 00
<b>1869.</b>	“ Gouley's, . . . . .	25 00
<b>1870.</b>	“ Ferguson's, . . . . .	18 00
<b>1871.</b>	“ Civiale's, . . . . .	18 00
<b>1872.</b>	“ Thompson's, . . . . .	26 00
<i>1873.</i>	“ Keyes', . . . . .	27 00
<b>1874.</b>	Evacuating Tube with Obturator, Keyes', . . . . .	6 75
<b>1875.</b>	Lithotomy Knife, Blizard's, probe point, . . . . .	1 25
<b>1876.</b>	“ Bistoury, Little's, . . . . .	1 25
<b>1877.</b>	“ Scalpel, sharp point, . . . . .	1 25
<b>1878.</b>	“ “ probe “ . . . . .	1 25
<b>1879.</b>	Wood's Bisector, . . . . .	3 00
<b>1880.</b>	Lithotomy Staff, Little's, . . . . .	1 50
<b>1881.</b>	“ “ plain, . . . . .	1 25
<b>1882.</b>	“ “ Markoe's, . . . . .	1 50
<b>1883.</b>	“ “ lateral, . . . . .	1 50
<b>1884.</b>	“ Scoop, Leuers', . . . . .	1 75
<b>1885.</b>	“ “ and Director, . . . . .	1 75
<b>1886.</b>	Blunt Gorget, Keyes', . . . . .	1 75
<b>1887.</b>	Lithotomy Director, Little's, . . . . .	1 00
<b>1888.</b>	Lithotome, Hutchinson's, . . . . .	5 00
<i>1889.</i>	“ Smith's, . . . . .	9 00
<b>1890.</b>	Lithotomy Forceps, straight, . . . . .	2 25
<b>1891.</b>	“ “ curved, . . . . .	2 25
<b>1892.</b>	“ “ Little's, . . . . .	2 25
<b>1893.</b>	Lithoclast, Dolbeau's, . . . . .	5 25
<b>1894.</b>	“ Gouley's double lever, . . . . .	7 50
<i>1895.</i>	Dolbeau's Guide for Lithoclast, . . . . .	2 75
<b>1896.</b>	Evacuating Catheter and Bag, Van Buren's, . . . . .	5 00
<b>1897.</b>	“ Apparatus, Bigelow's, . . . . .	22 50
<b>1898.</b>	Debris Syringe, Van Buren's, . . . . .	2 75
<b>1899.</b>	Anklets and Wristlets, Pritchett's, . . . . .	6 00
<i>1900.</i>	Canula à Chemise, . . . . .	1 25

The boldface numbers represent instruments illustrated.



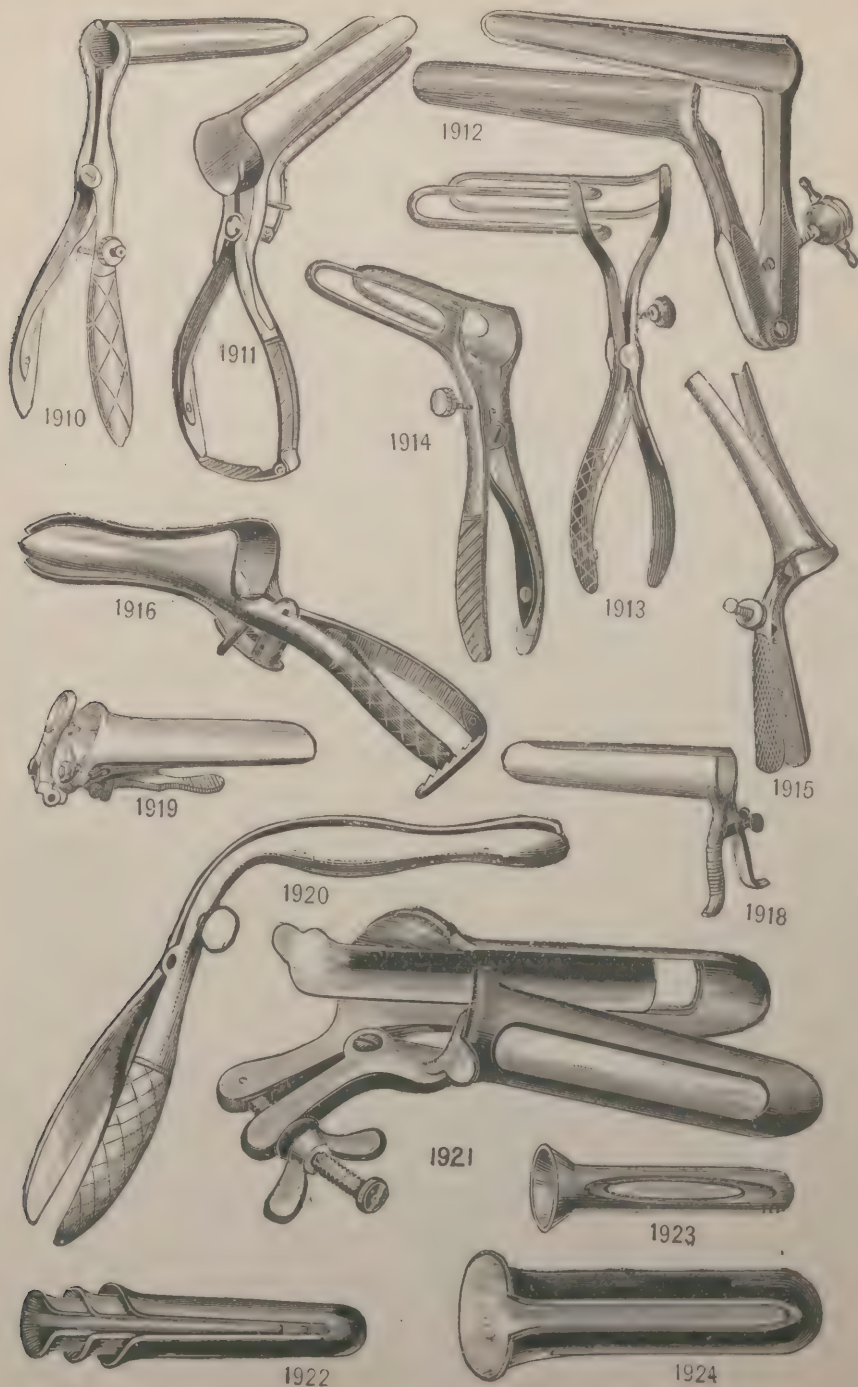


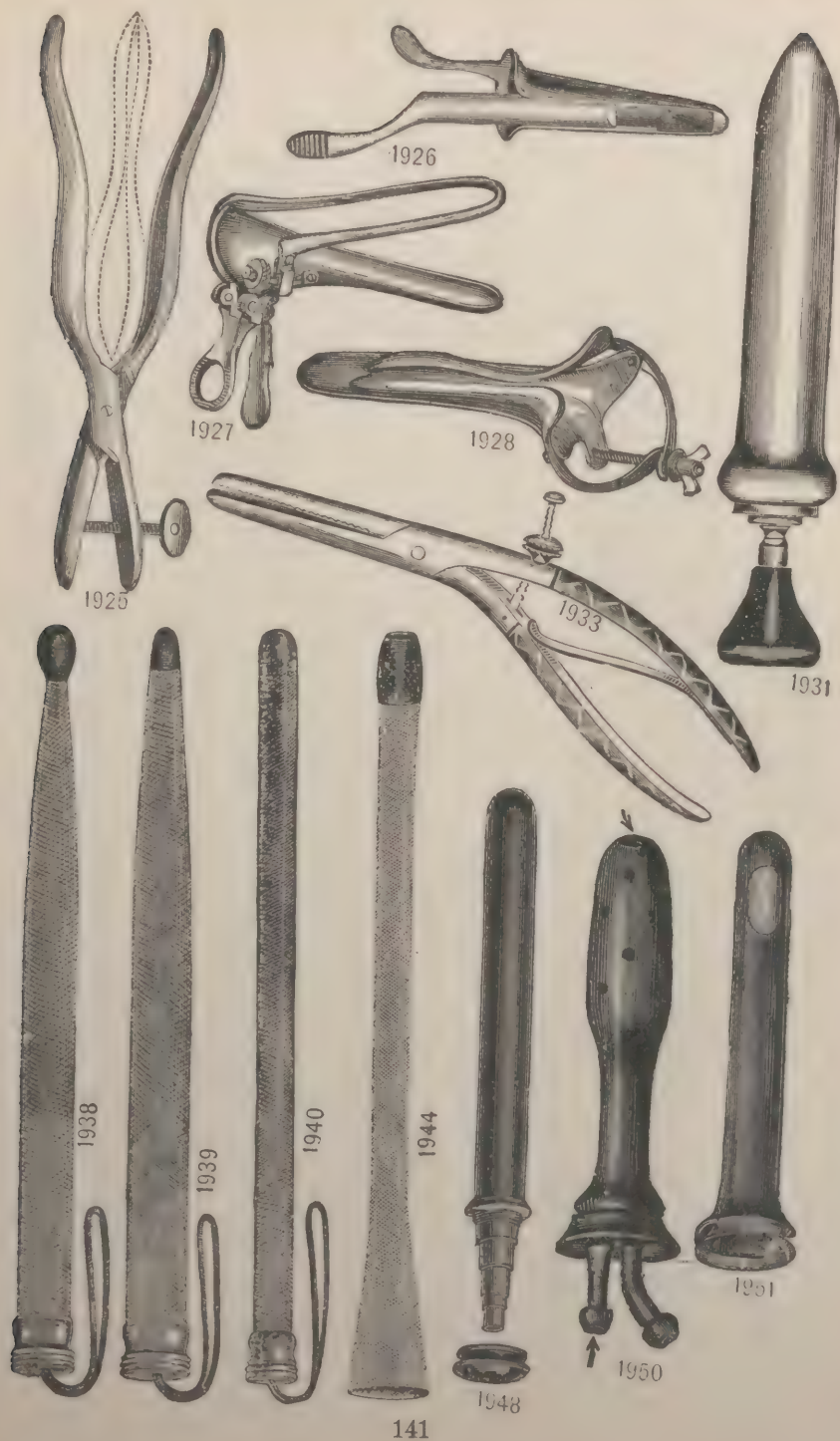


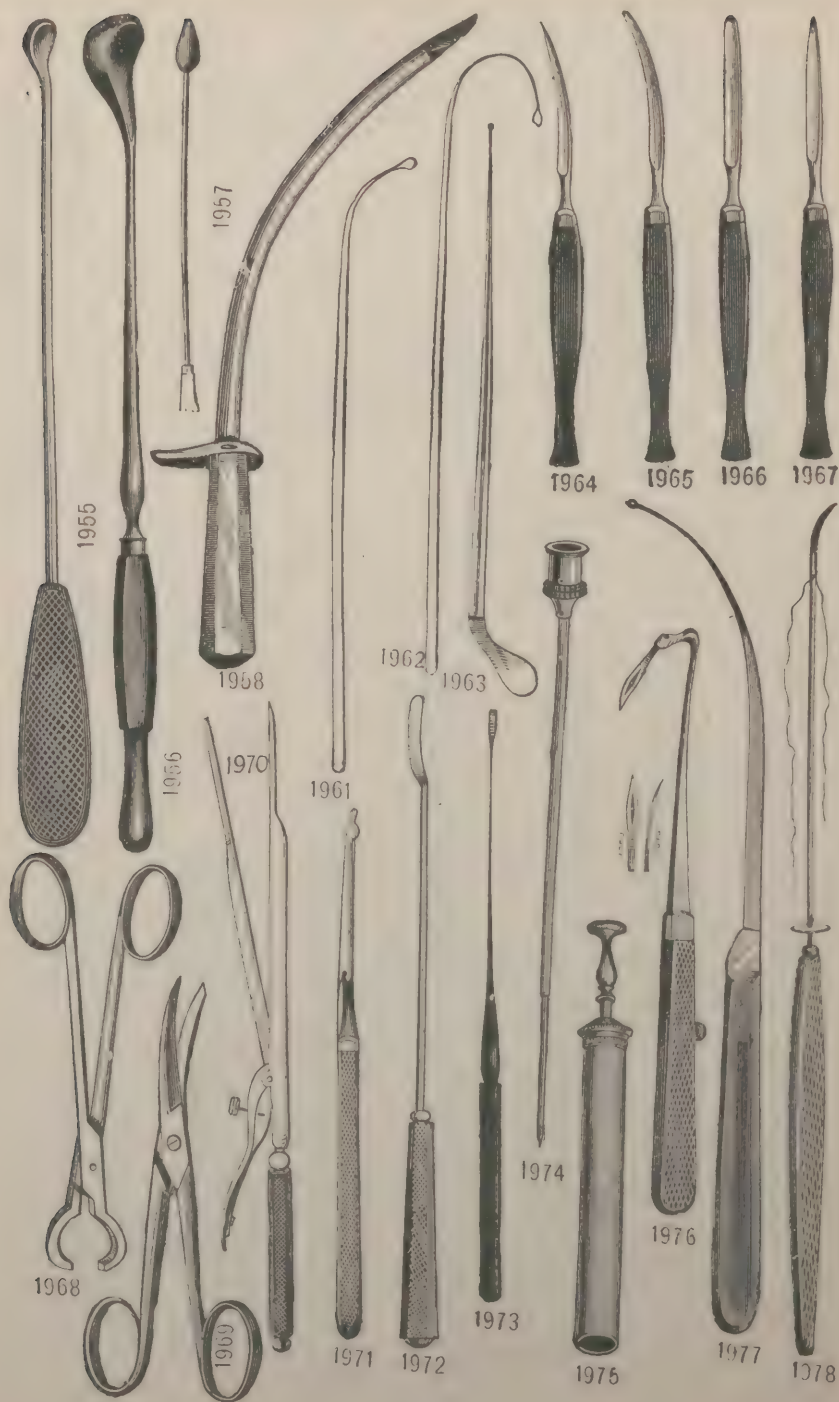
## PRICE.

<b>1925.</b>	Anal Dilator, Sims', . . . . .	<b>3 25</b>
<b>1926.</b>	Rectal Speculum, Brinkerhoff's, . . . . .	<b>4 50</b>
<b>1927.</b>	" " Kelsey's, . . . . .	<b>4 50</b>
<b>1928.</b>	" " Nott's, . . . . .	<b>2 50</b>
<b>1930.</b>	Anal Dilator, Collins', . . . . .	<b>7 00</b>
<b>1931.</b>	Rectal Dilators, Pratt's, 6 sizes, . . . . . each	<b>1 25</b>
<b>1932.</b>	" " " 6 " handle unscrews, for hot water, .	<b>1 50</b>
<b>1933.</b>	Small Clamp, Pratt's, . . . . .	<b>2 75</b>
<b>1938.</b>	Rectal Bougies, silken linen, olivary, . . . . .	<b>1 50</b>
<b>1939.</b>	" " " " conical, . . . . .	<b>1 50</b>
<b>1940.</b>	" " " " cylindrical, . . . . .	<b>1 25</b>
<b>1941.</b>	" " lisle thread, olivary, . . . . .	<b>1 00</b>
<b>1942.</b>	" " " " conical, . . . . .	<b>1 00</b>
<b>1943.</b>	" " " " cylindrical, . . . . .	<b>85</b>

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### ANAL AND RECTAL INSTRUMENTS—Continued.

No.		PRICE.
1944.	Rectal Tube, silken linen, funnel end, . . . . .	\$1 50
1945.	" " " plain " . . . . .	I 25
1946.	" " lisle thread, funnel " . . . . .	I 00
1947.	" " " plain " . . . . .	85
1948.	" Bougies, hard rubber, 6 sizes, . . . . . per set	3 00
1950.	" Irrigator, Bodenhamer's, . . . . .	I 75
1951.	" Endoscope, Skeene's, . . . . .	2 50
1955.	" Curette, . . . . .	I 00
1956.	" Scoop, Kelsey's, . . . . .	I 75
1957.	" Exploring Sound, Bodenhamer's, 10 sizes, . . . . each	75
1958.	" Trocar, curved, . . . . .	I 50
1959.	" " Parker's, guarded, . . . . .	3 25
1960.	" " Buck's, . . . . .	2 50
1961.	Silver Probe, Bodenhamer's, . . . . .	75
1962.	" " " . . . . .	75
1963.	Director, silver, grooved and probe-pointed, . . . . .	I 00
1964.	Curved Bistoury, sharp point, . . . . .	I 00
1965.	" " blunt " . . . . .	I 00
1966.	Straight " " " . . . . .	I 00
1967.	" " sharp " . . . . .	I 00
1968.	Pile Extractor, Bush's, . . . . .	I 75
1969.	" Scissors, " . . . . .	I 25
1970.	Rectal Bistoury, Bodenhamer's, . . . . .	5 25
1971.	Anal Fissure Knife, " . . . . .	3 75
1972.	Rectal Scarificator, . . . . .	I 00
1973.	Applicator, Kelsey's, . . . . .	50
1974.	Hemorrhoidal Needle to fit on syringe, . . . . .	75
1975.	Suppository, hard rubber, . . . . .	I 25
1976.	Needle Holder and Needles, Bush's, . . . . .	2 00
1977.	Fistula Knife, Kelsey's, . . . . .	I 75
1978.	Needle, Hutchinson's, . . . . .	I 75



No. 1979.

1979.	Fistulatome, Matthews',	6 00
1980.	Porte Caustic Forceps, Martin's,	2 50
1981.	Enterotome, Depuytren's,	3 75
1982.	Double Tenaculum Forceps, Byrne's,	4 50
1983.	Pile Clamp, Smith's,	4 50
1984.	" " Ashton's,	2 50
1985.	" " Ethridge's,	5 50
1986.	" " Skeene's,	4 50

The boldface numbers represent instruments illustrated.



**ANAL AND RECTAL INSTRUMENTS—Continued.**

NO.		PRICE.
1987.	Knot Tier, Carroll's, . . . . .	\$1 50
1988.	Ligature Carrier, Allingham's, . . . . .	2 75
1989.	Pile Pipe, hard rubber, for applying ointment, . . . . .	1 00
1990.	" Supporter, with belt, . . . . .	4 50
1991.	" " Trosseau's, . . . . .	1 75
1992.	" " Reed's, . . . . .	1 00
1993.	Elastic Ligature, 4 sizes, per foot, . . . . .	10
1994.	Hemorrhoidal Syringe, Adams', . . . . .	3 00

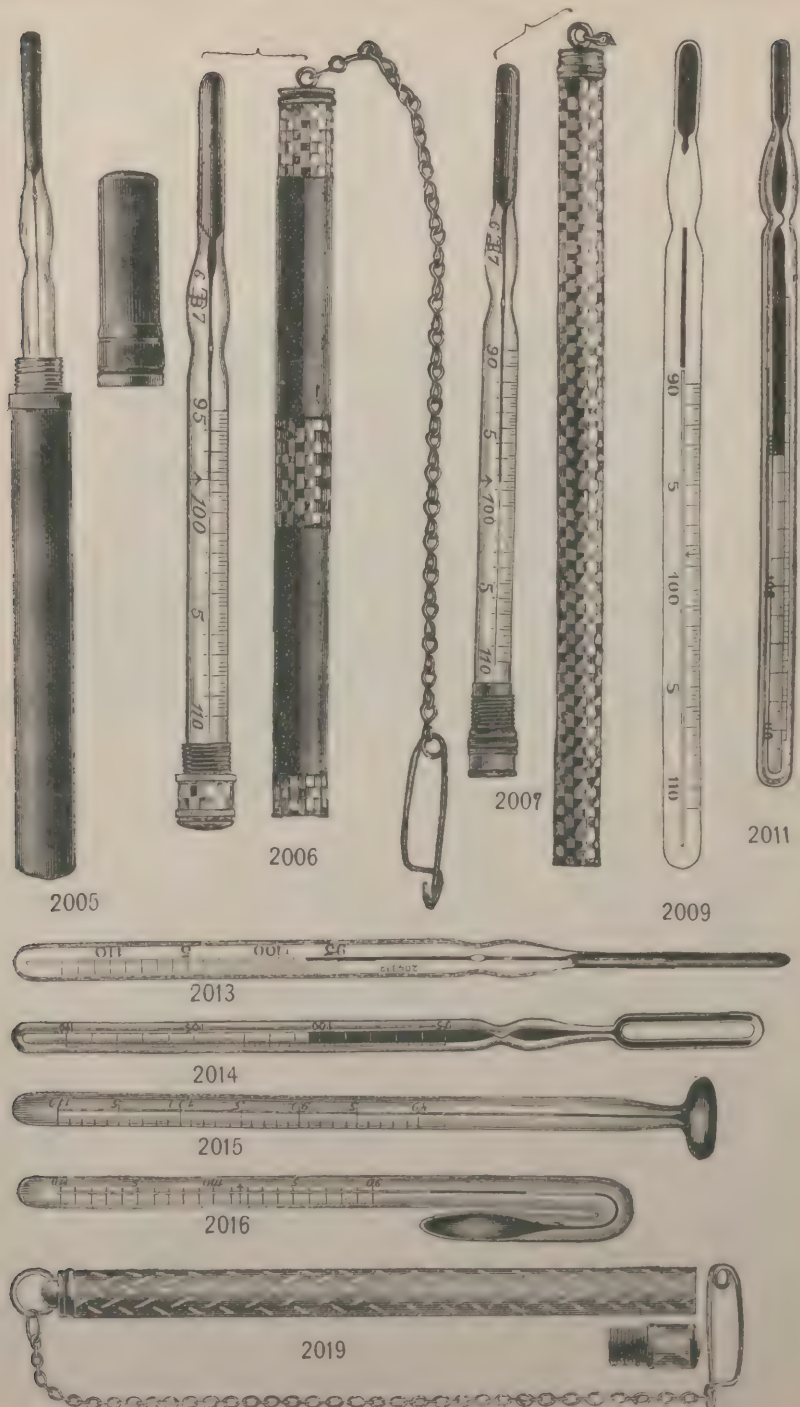
**No. 1995.**

1995.	Hemorrhoidal Syringe, with one silver Fistula Tube, 1 Guarded Injecting Needle with platinum point, and 1 Hypodermic Needle, . . . . .	3 50
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**DIAGNOSTIC INSTRUMENTS.**

2005.	Clinical Thermometer, "T. B." plain case, certified, . . . . .	\$1 00
2005 1/2.	" " " " " " lens front, . . . . .	1 50
2006.	" " " enameled and gilt chain case, certified, . . . . .	1 75
2007.	Clinical Thermometer, "T. B." gilt chain case, certified, . . . . .	1 50
2008.	" " " silver " " " . . . . .	2 50
2009.	" " Hicks' indestructible column, . . . . .	1 25
2010.	" " " " " with certificate, . . . . .	1 50
2011.	Clinical Thermometer, Hicks' lens front, . . . . .	2 25
2012.	" " " " " certified, . . . . .	2 50
2013.	" " " " " 1 minute, . . . . .	3 25
2014.	" " " " " instantaneous, . . . . .	5 00

The boldface numbers represent instruments illustrated.








## DIAGNOSTIC INSTRUMENTS—Continued.

The boldface numbers represent instruments illustrated.



# C. H. GOLDTHWAITE & CO.,

## DIAGNOSTIC INSTRUMENTS—Continued.

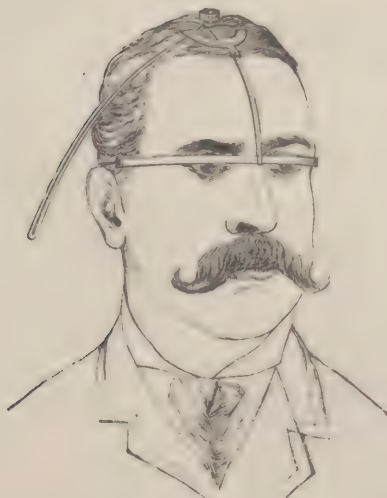
	NO.		PRICE.
	<b>2057.</b>	Stethoscope, Robertson's, with improved chest piece, . . . . .	\$1 50
	<b>2058.</b>	Stethoscope, Sansom's, . . . . .	2 00
	<b>2059.</b>	" Cammann's, . . . . .	2 00
	<b>2060.</b>	" flexible, . . . . .	2 00
	<b>2061.</b>	" vacuum, . . . . .	3 00
	<b>2065.</b>	Pleximeter, Flint's, hard rubber, . . . . .	25
	<b>2066.</b>	" " ivory, . . . . .	75
	<b>2067.</b>	" Struck's, hard rubber, . . . . .	35
	<b>2068.</b>	" T shape, " " . . . . .	65
	<b>2070.</b>	Percussion Hammer, Winterich's, . . . . .	85
	<b>2071.</b>	" " Flint's, all rubber, . . . . .	60
	<b>2072.</b>	" " " with metal handle, . . . . .	90
	<b>2073.</b>	" " Taylor's, . . . . .	1 50
	<b>2076.</b>	Fissure-meter, Horsley's, . . . . .	18 00
	<b>2077.</b>	Sphygmograph, Marey's, . . . . .	60 00
	<b>2078.</b>	" Dudgeon's, . . . . .	20 00
	<b>2080.</b>	Dynamometer, . . . . .	6 00
	<b>2081.</b>	Æsthesiometer, Hammond's, . . . . .	2 00
	<b>2082.</b>	" Carroll's, . . . . .	3 00
	<b>2083.</b>	Stethometer, " . . . . .	2 50
	<b>2084.</b>	Cyrtometer, Flint's, . . . . .	6 00
	<b>2085.</b>	Cardiometer, Cammann's, . . . . .	3 50
	<b>2086.</b>	Spirometer and Inhaler, Shepard's, . . . . .	15 00
	<b>2087.</b>	Richardson's Instrument for Re-establishing Respiration in Asphyxia, . . . . .	3 50

## ASPIRATORS AND TROCARS.

<b>2090.</b>	Aspirator, Potain's, in case, . . . . .	10 00
<b>2091.</b>	" " " with 3 trocars and stop-cock added in larger case, . . . . .	15 00
<b>2092.</b>	Stomach Pump Attachment for Potain's Aspirator, . . . . .	4 50
<b>2093.</b>	Aspirator, Dieulofoy's, . . . . .	15 00
<b>2094.</b>	" Fitch's, . . . . .	3 00
<b>2095.</b>	" perfected, . . . . .	3 00
<b>2096.</b>	Black's Combination of Aspirator, Stomach Pump, Cupping Apparatus, Breast Pump, etc., etc., . . . . .	10 00
<b>2097.</b>	Aspirating Needle, . . . . .	75
<b>2098.</b>	" Trocar, . . . . .	75

The boldface numbers represent instruments illustrated.





No. 2076.

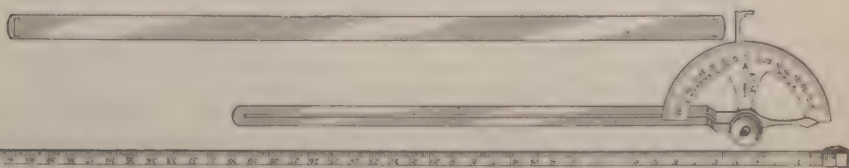
[*Extract from Paper of W. W. Keen, M. D., read before the New York State Medical Association, October 22, 1890.*]

"I desire to show to the Association Mr. Horsley's new Rolandic Fissure-meter, which I have lately obtained through his courtesy.

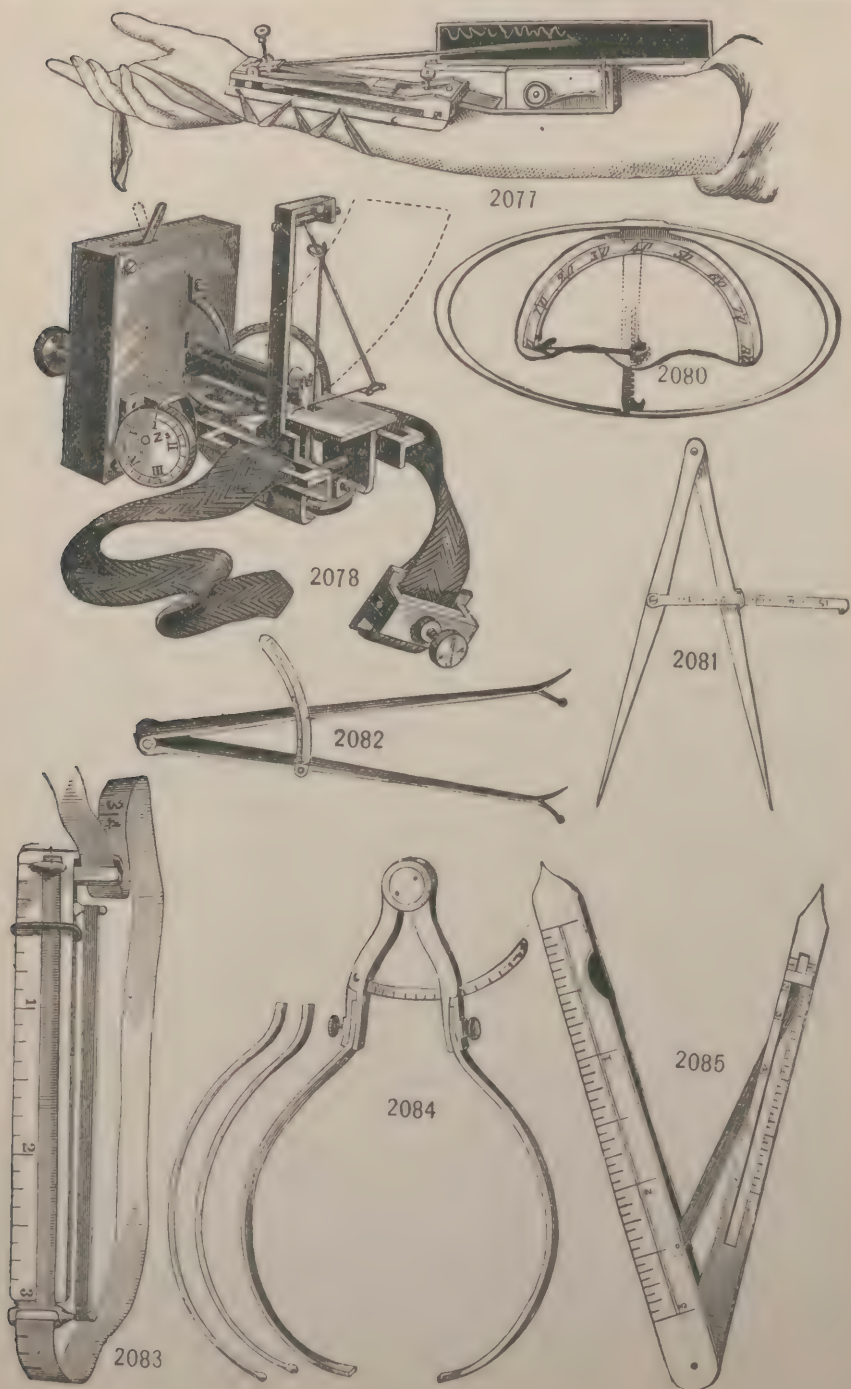
"Heretofore we have assumed, as shown by Thane, that the fissure of Rolando runs downward and forward at an angle of  $67^{\circ}$  with the middle line. Mr. Horsley's observations have convinced him that the angle varies with the shape of the head, that is to say, with the cranial index. The higher the cranial index, the greater the angle; the lower the index, the lower the angle.

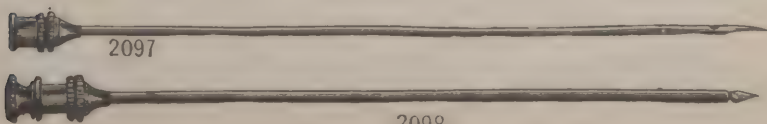
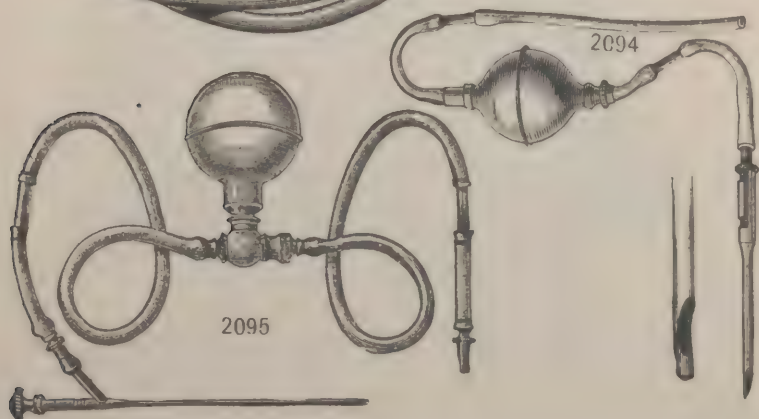
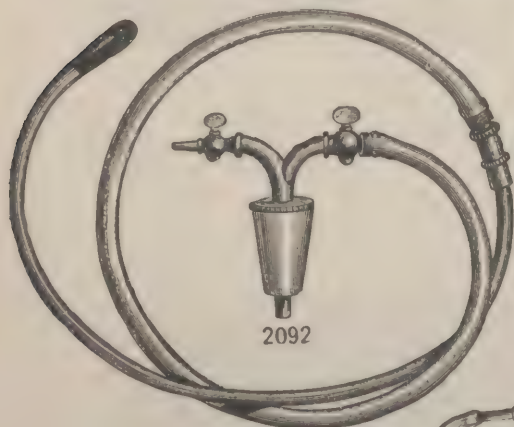
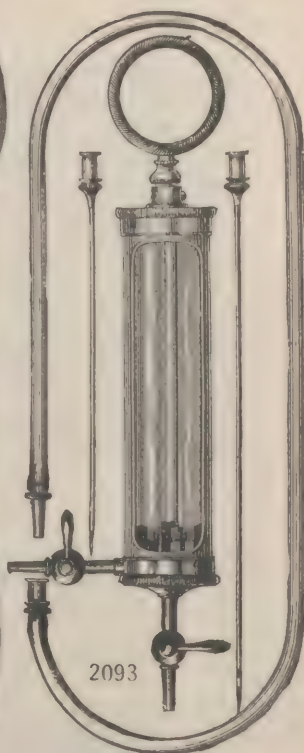
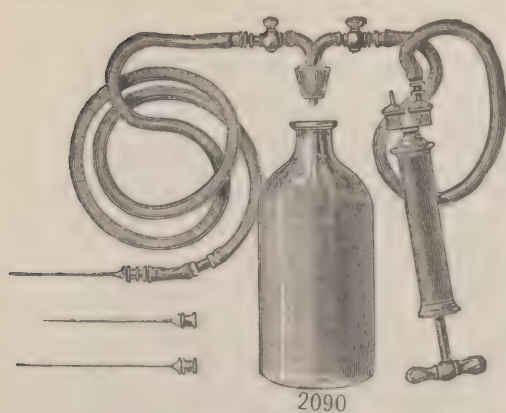
"Mr. Horsley assumes a standard for the cranial index of 75 as established by the caliper of Broca, and for the angle of the fissure of Rolando  $69^{\circ}$  instead of  $67^{\circ}$ , and for every two integers of variation in the cranial index he assumes one degree of variation in the angle of the Rolandic fissure.

"Hence, if the cranial index is 77 instead of 75, the angle for the fissure would be  $70^{\circ}$  instead of  $69^{\circ}$ , and if the cranial index is 73, the angle for the fissure would be  $68^{\circ}$ , and so on. Based upon this, he has devised the instrument which I show you, and which differs from the ordinary fissure-meters or cyrtometers in being provided with means for rotating the arm representing the fissure of Rolando."



No. 2076.





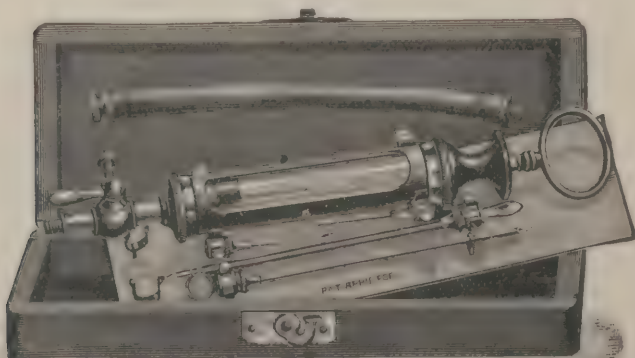
# C. H. GOLDTHWAITE & CO.,

## SYRINGES.



**No. 2100.**

NO.		PRICE.
<b>2100.</b>	Aspirating Hypodermic Syringe, capacity 65 minims, with stop-cock, 1 small needle, 1 large needle, and 1 aspirating trocar, . . . . .	\$3 00
<b>2101.</b>	Same as No. 2100, capacity 100 minims, . . . . .	4 00



**No. 2102.**

<b>2102.</b>	New Aspirating and Hypodermic Syringe. . . . .	5 00
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This arrangement of a popular style of syringe for aspiration and hypodermic injection will be found to have decided advantages over those previously offered.

The need of a large syringe for injecting stimulants, that can be used for aspiration if required, is positive.

This apparatus consists of a syringe holding  $1\frac{1}{2}$  drachms, with depression for the fingers to facilitate its use with one

The boldface numbers represent instruments illustrated.



## SYRINGES—Continued.

hand, instead of the bulky rings heretofore used. The packing is made with oil cup between, which serves to keep the leather moist and pliable.

With the syringe is furnished a stopcock with tip for both ingress and egress of fluids, so that syringe during aspiration may be filled and emptied without uncoupling.

1 aspirating trocar, 1 aspirating needle, and 2 hypodermic needles are also included, and these may any of them be used without the intervention of the stopcock if desired.

We have also made an addition which will be appreciated by every one who has attempted to use the small aspirators heretofore offered. We refer to a short connecting rubber tube, to connect the stopcock with the aspirating needle. When the needle is screwed directly to the stopcock it is impossible to work the syringe or turn the stopcock without considerable movement of the needle, which must be highly objectionable. This arrangement does away with any movement of the needle while in the tissues.

A short rubber tube for outflow is also added.

All the parts are mounted on a metal plate which may be removed entire from the case, which is of polished wood,  $6\frac{1}{4}$  inches by  $2\frac{1}{4}$  inches and  $1\frac{1}{8}$  inches thick.



No. 2103.

NO.

PRICE

- 2103.** Hypodermic Syringe with glass barrel, protected by a fenestrated metal cylinder, showing graduations on the piston rod; in morocco case, hook catch, . . . . . \$1 25

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## SYRINGES—Continued.



**No. 2104.**

- |  |   |   |
|--|---|---|
| <p><small>NO.</small><br/><b>2104.</b></p> | <p>Hypodermic Syringe with glass barrel, protected by a metal cylinder, open both sides, with graduations on piston rod, with finger rests same as cut, and cap on end to prevent drying out of plunger, made to use either <b>tablets or liquids</b>; in morocco case, spring catch, . . . . .</p> | <p><small>PRICE.</small><br/><br/><br/><br/><br/><br/><br/><br/><br/><br/><b>\$1 75</b></p> |
|--|---|---|

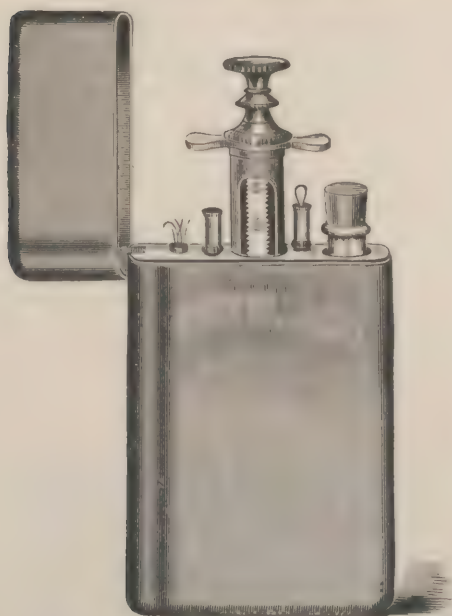


**No. 2105.**

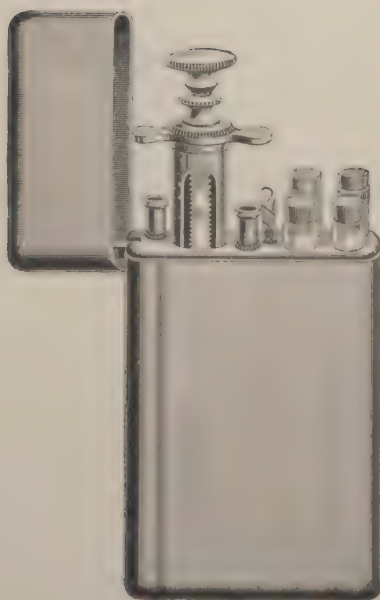
- |                     |  |  |
|---------------------|--|--|
| <p><b>2105.</b></p> | <p>Hypodermic Syringe with glass barrel, protected by a metal cylinder, open both sides, with graduations on piston rod, with finger rests same as cut, and cap on end to prevent drying out plunger, made to use either <b>tablets or liquids</b>, with 6 vials: in morocco case, . . . . .</p> | <p><br/><br/><br/><br/><br/><br/><br/><br/><br/><br/><b>2 25</b></p> |
|---------------------|--|--|

The boldface numbers represent instruments illustrated.

SYRINGES—Continued.



No. 2106.



No. 2107.

**SYRINGES—Continued.**

NO.		PRICE.
<b>2106.</b>	Hypodermic Syringe with glass barrel, protected by a metal cylinder, open both sides, with graduations on piston rod, finger rests same as cut, and cap on end to prevent drying out of plunger; in <b>fine nickel case with spring cover; needles screw into case,</b> . . . . .	<b>\$2 25</b>
<b>2107.</b>	Hypodermic Syringe, same as No. 2106; in fine nickel case, with spring cover; needles screw into case; with 4 vials for tablets; this is the most compact and neatest case in the market, . . .	<b>2 50</b>
<b>2107½.</b>	Same as 2107, but in a fine aluminum case, . . . . .	<b>3 00</b>



**No. 2108.**

<b>2108.</b>	Hypodermic Syringe, . . . . .	<b>2 00</b>
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This has proven one of the most desirable patterns of hypodermic syringes yet offered to the profession, and it is meeting with an increasing demand. The syringe is the same as No. 2104, while the case is of fine morocco, made quite flexible. The illustration is full size, and as the syringe has soft and elastic corners and edges, it is particularly adapted for carrying in the vest pocket.

The boldface numbers represent instruments illustrated.



## SYRINGES—Continued.



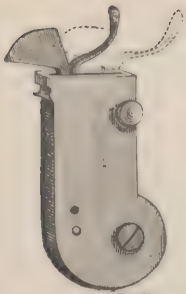
NO.		PRICE.
<b>2109.</b>	Hypodermic, for pocket case, . . . . .	<b>\$1 75</b>
	This syringe has a solid silver barrel, graduated on piston, plated needle fitting into end of piston. This syringe has become quite popular, owing to its durability and compactness. It can be carried in the vest pocket, under the loop of a pocket medicine case, or in a pocket instrument case.	
<i>2110.</i>	Hypodermic Syringe, same as No. 2103, but with all metal barrel,	<b>1 50</b>
<i>2111.</i>	“ “ Needle, to screw or slip on, steel, nickel plated, . . . . .	<b>25</b>
<i>2112.</i>	Hypodermic Syringe Needle, re-enforced, steel, . . . . .	<b>30</b>
<i>2113.</i>	“ “ “ pure nickel, . . . . .	<b>35</b>
<i>2114.</i>	“ “ “ platinum, . . . . .	<b>60</b>
	<b>REPAIRING.</b>	
	New glass barrel, . . . . .	<b>40</b>
	“ “ “ graduated, . . . . .	<b>50</b>
	Re-packing syringe, . . . . .	<b>20</b>
	New needles in hubs, . . . . .	<b>25</b>
	Re-enforced needles in hubs, . . . . .	<b>30</b>
<b>2120.</b>	Trocar and Cannula, plain, 3 sizes, . . . . . each	<b>75</b>
<b>2121.</b>	“ “ “ curved, . . . . .	<b>1 50</b>
<b>2122.</b>	“ “ “ with stopcock, 3 sizes, . . . . . each	<b>1 75</b>
<i>2123.</i>	“ “ “ set of 3, . . . . .	<b>3 50</b>
<i>2124.</i>	“ “ “ “ “ 4, . . . . .	<b>4 50</b>
<b>2125.</b>	“ “ “ Roberts' pericardial, . . . . .	<b>2 50</b>
<b>2126.</b>	“ “ “ Duchenne's, . . . . .	<b>1 75</b>
<b>2127.</b>	“ “ “ exploring, . . . . .	<b>75</b>
<b>2128.</b>	“ “ Aspirator, Flint's, . . . . .	<b>3 75</b>
<i>2129.</i>	Rubber Bag, with stopcock, for injecting hydrocele, . . . . .	<b>1 75</b>

## LEECHING, CUPPING, AND VACCINATING INSTRUMENTS.

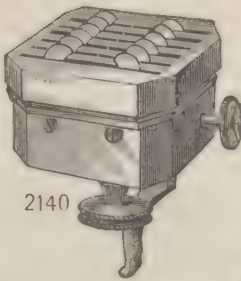
<b>2130.</b>	Vaccinating Trocar, . . . . .	<b>1 75</b>
<b>2131.</b>	Vaccine Scarifier, all steel, . . . . .	<b>25</b>
<b>2132.</b>	“ Lancet and Comb, . . . . .	<b>75</b>
<b>2133.</b>	“ “ grooved, . . . . .	<b>50</b>
<b>2134.</b>	Thumb Lancet, . . . . .	<b>50</b>
<b>2135.</b>	Transfusion Apparatus, Aveling's, . . . . .	<b>3 50</b>
<i>2136.</i>	Spring Lancet, plain, brass, . . . . .	<b>1 00</b>

The boldface numbers represent instruments illustrated.





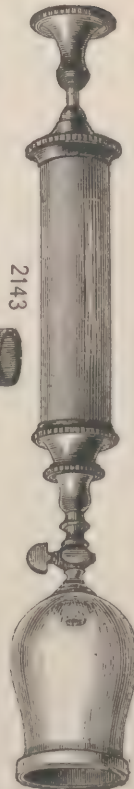
2137



2140



2142



2143

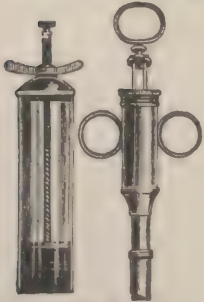
2144



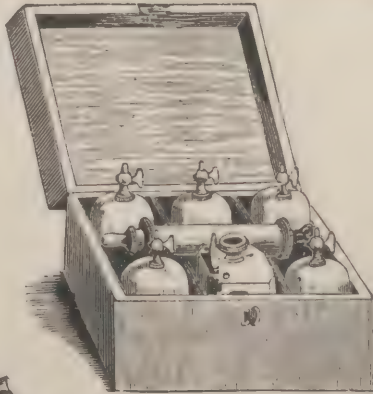
2159



2148



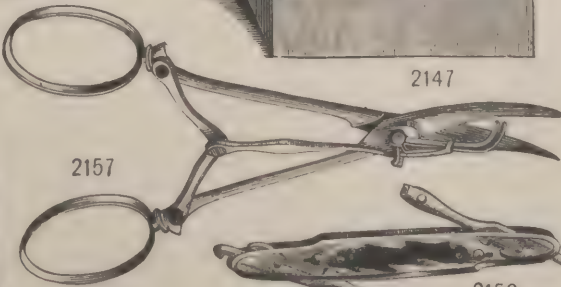
2149



2147



2155 2156



2157



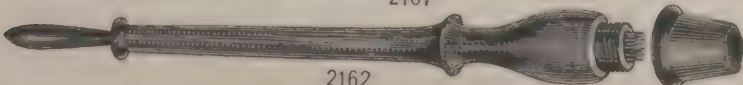
2158



2160



2161



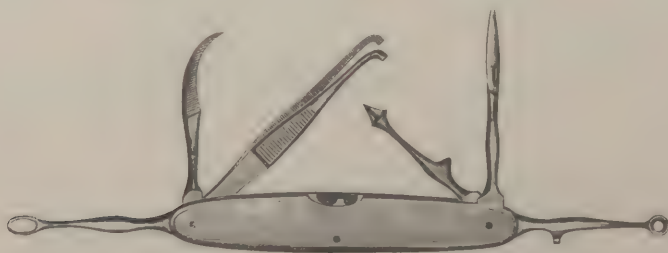
2162

LEECHING, CUPPING, AND VACCINATING  
INSTRUMENTS—Continued.

NO.		PRICE.
2137.	Spring Lancet, button, brass, . . . . .	\$1 50
2138.	“ “ “ nickel-plated, . . . . .	1 75
2139.	Scarificator, 10 blades, . . . . .	3 50
2140.	“ 12 “ . . . . .	4 00
2141.	Plain Cupping Glasses, . . . . . per dozen	1 00
2142.	Cupping Glass, with rubber bulb, 3 sizes, . . . . . each	30
2143.	“ Pump, brass, . . . . .	2 00
2144.	“ Glass, with stopcock, . . . . .	75
2145.	“ “ “ valve, . . . . .	50
2146.	“ Case, containing 1 Cupping Pump, 5 Glasses, with valves; in walnut case, with space for Scarificator, . . . . .	5 50
2147.	Cupping Case, contains 1 Pump, 5 Glasses, with brass stopcocks; in walnut case, with space for Scarificator, . . . . .	7 00
2148.	Thomas' Dry Cupper, . . . . .	1 00
2149.	Heurteloup's Artificial Leech, in case, improved, . . . . .	6 50

DERMIC INSTRUMENTS.

2155.	Piffard's Scarifying Spud, . . . . .	1 00
2156.	“ Millium Needle, . . . . .	1 00
2157.	Skin-grafting Scissors, . . . . .	6 00
2158.	Piffard's Lancet and Comedone Extractor, . . . . .	1 75
2159.	Comedone Extractor, . . . . .	50
2160.	Grafting Forceps, . . . . .	2 50
2161.	Dermic Curette, 3 sizes, . . . . . each	1 50
2162.	Baumscheidt's Instrument for Counter Irritation, . . . . .	1 75
2163.	Piffard's Epilating Forceps, . . . . .	85
2164.	“ Cutisector, . . . . .	3 50



No. 2165.

2165.	McMurray's Dermic Knife, . . . . .	6 50
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I desire to direct attention to an instrument lately devised by me, and which, I hope, will supply a want recognized by those interested in the treatment of cutaneous diseases.

The boldface numbers represent instruments illustrated.



**DERMIC INSTRUMENTS—Continued.**

The combination contains six instruments. At one extremity there is a curette, curved bistoury, and pair of epilating forceps; at the other a Kaposi acne lance, comedo extractor, and dermatome.

The knife, in shape and size, resembles an ordinary pocket penknife, which permits it to be readily carried. It is constructed with a German-silver, nickel-plated handle, giving it a neat and elegant appearance, and thus easily sterilized without injury to component parts.

In length it measures  $3\frac{3}{4}$  inches,  $\frac{1}{2}$  inch at greatest breadth, and weighs  $1\frac{1}{2}$  ounces.

It is, therefore, portable and compact. The blades and instruments it contains are made of the best steel and are durable.

The illustration gives a fair representation of my dermic knife, of which E. A. Yarnall, of Philadelphia, is the manufacturer.

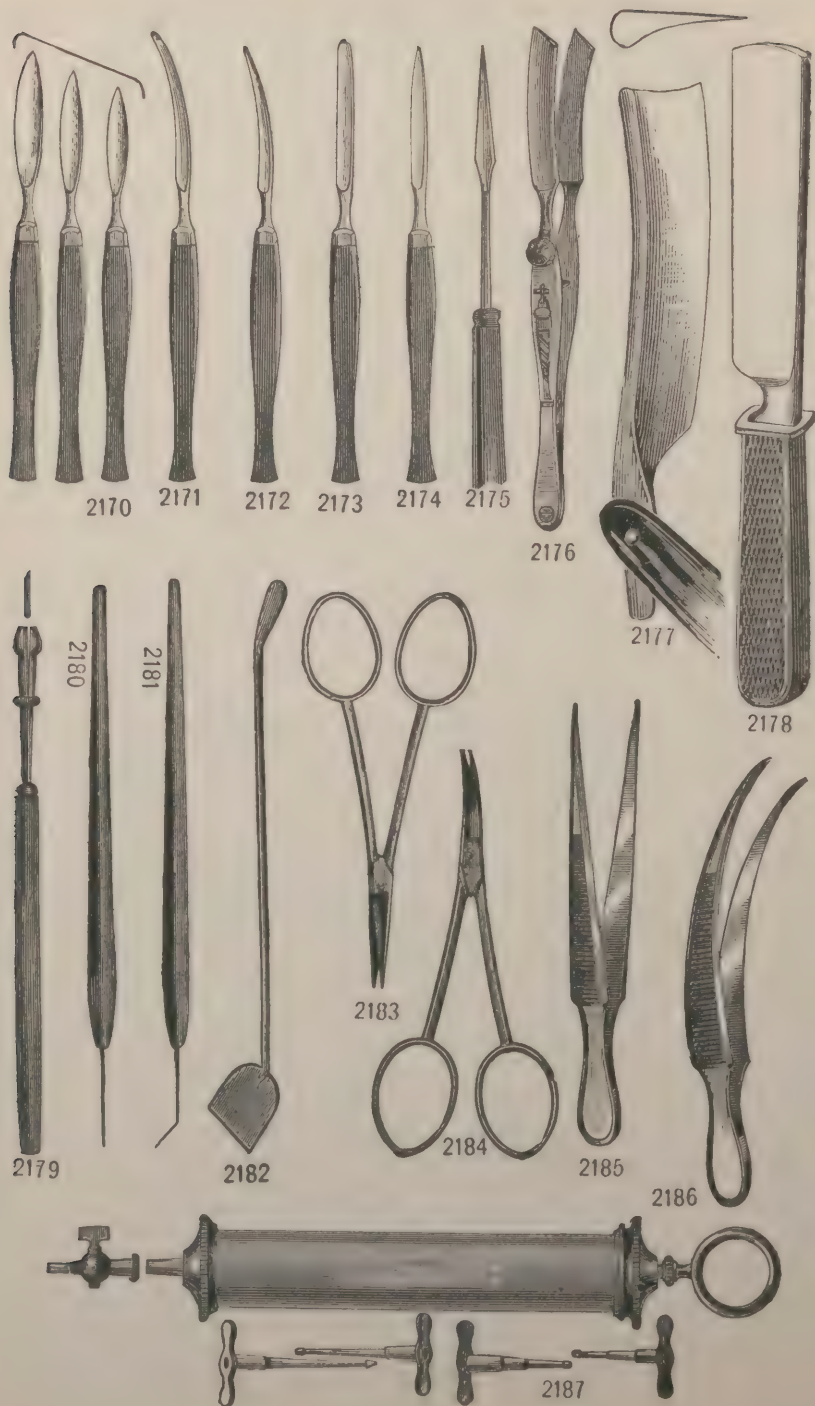
W. McMURRAY, M. D.,

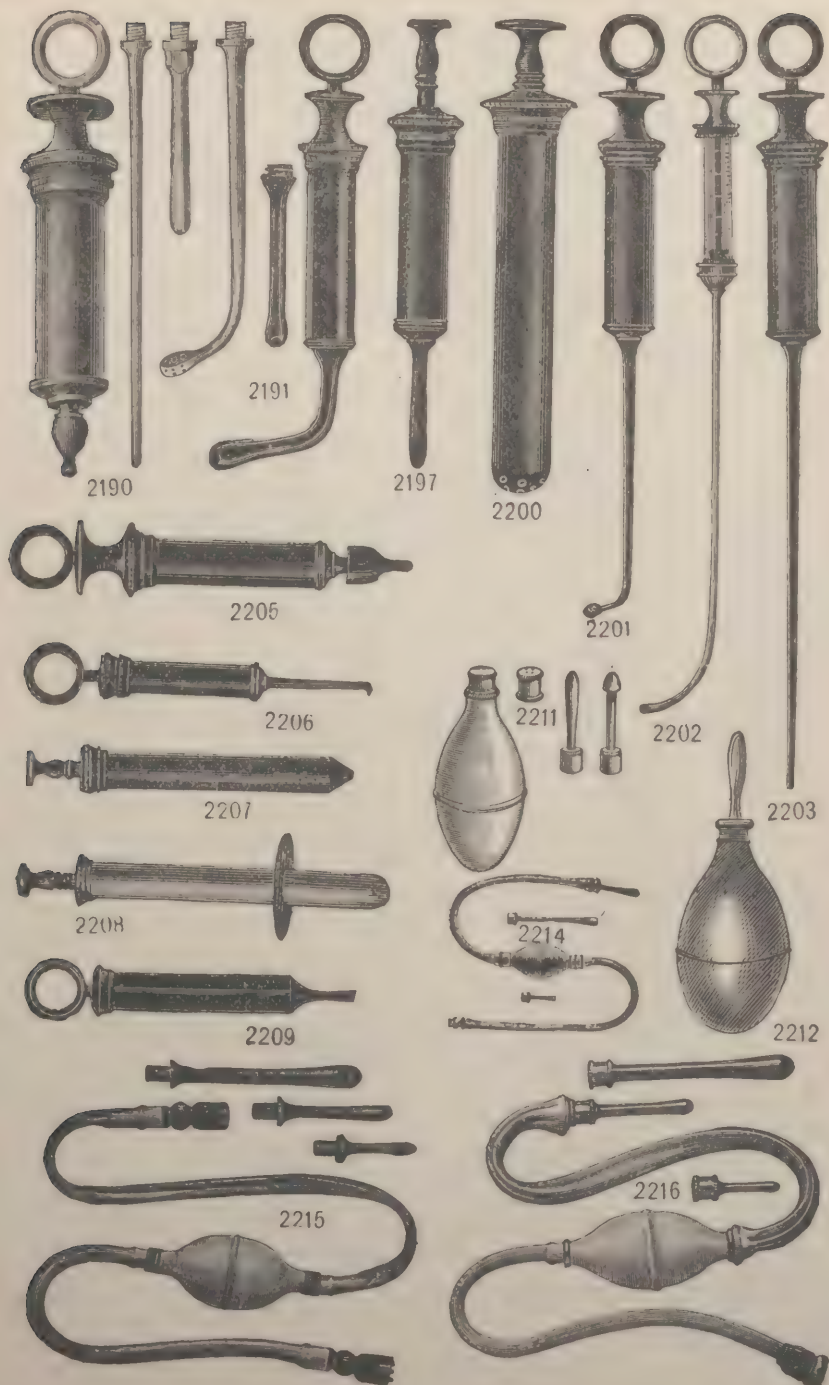
2 Lyons Terrace, Liverpool Street, Sydney.

**MICROSCOPIC INSTRUMENTS.**

NO.		PRICE
<b>2170.</b>	Microscopic Scalpels, 3 sizes, . . . . . each	60
<b>2171.</b>	" Bistoury, curved, probe point, . . . . .	75
<b>2172.</b>	" " " sharp " . . . . .	75
<b>2173.</b>	" " straight, probe " . . . . .	75
<b>2174.</b>	" " " sharp " . . . . .	75
<b>2175.</b>	" Knife, spear point, . . . . .	75
<b>2176.</b>	" Section Knife, Valentine's, . . . . .	5 00
<b>2177.</b>	" " Razor, . . . . .	1 50
<b>2178.</b>	" " Knife, . . . . .	2 75
<b>2179.</b>	" Needle-holder, . . . . .	75
<b>2180.</b>	" " straight, . . . . .	25
<b>2181.</b>	" " curved, . . . . .	25
<b>2182.</b>	" Section Elevator, . . . . .	25
<b>2183.</b>	" Scissors, straight, . . . . .	75
<b>2184.</b>	" " curved on flat, . . . . .	1 00
<b>2185.</b>	" Forceps, straight, . . . . .	85
<b>2186.</b>	" " curved, . . . . .	1 00
<b>2187.</b>	" Syringe, brass, . . . . .	10 00

The boldface numbers represent instruments illustrated.





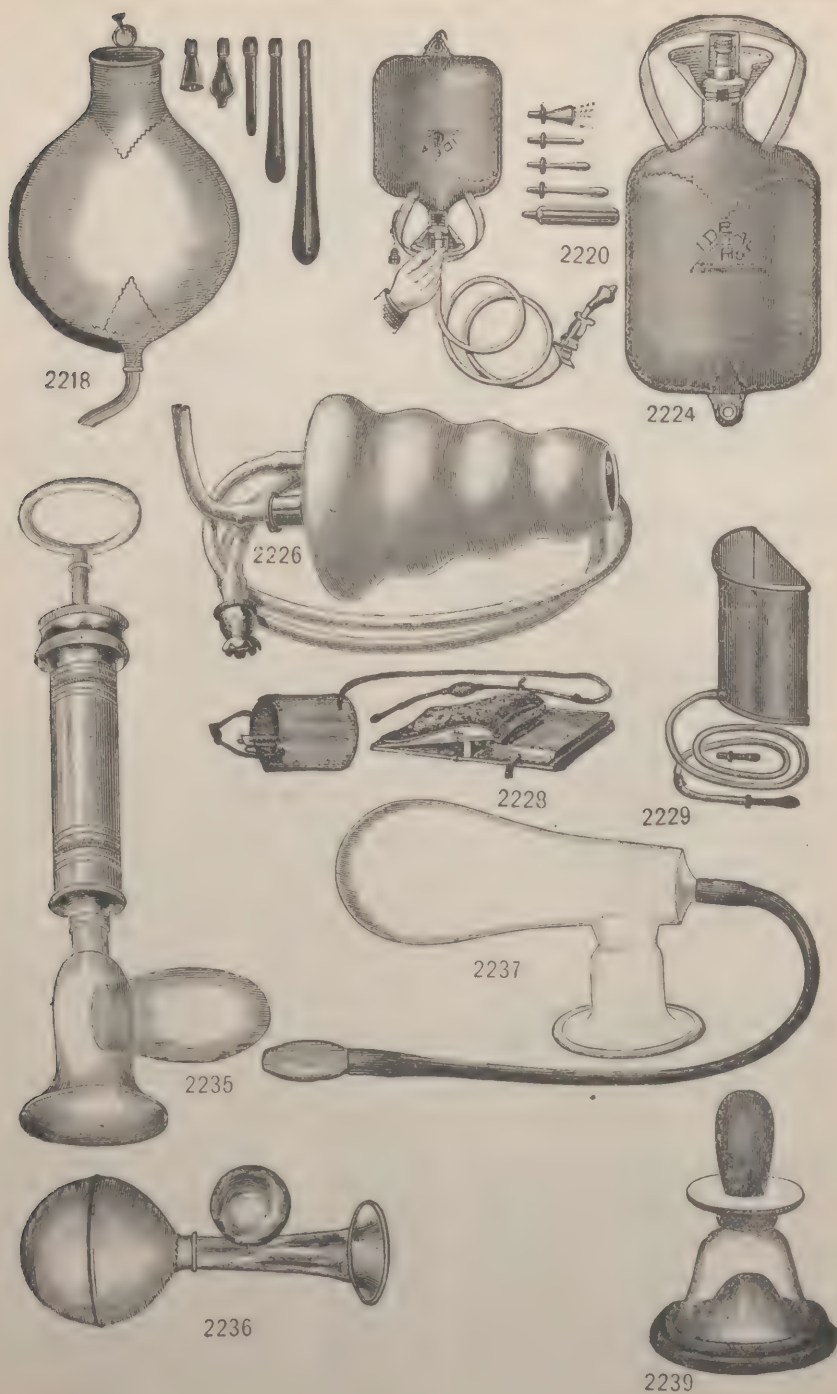
# C. H. GOLDBTHWAITE & CO.,

## SYRINGES.

NO.		PRICE.
2189.	Syringe, metal, ear, with 3 rings, Kramer's (see page 48), . . .	\$2 00
2190.	" hard rubber, Universal, containing ear, uterine, rectal, and post-nasal tubes, . . . . .	2 50
2191.	Syringe, hard rubber, with straight and bent tubes, female, 3 oz.,	1 50
2192.	" " " " " " " " " 6 "	2 00
2193.	" " " " " " " " " male, 3 "	1 50
2194.	" " " " " " " " " 6 "	2 00
2195.	" " " " " " pipe, 1 ounce, . . . . .	75
2196.	" " " " " " " 2 " . . . . .	90
2197.	" " " " " " " 4 " . . . . .	1 15
2198.	" " " " " " " 6 " . . . . .	1 50
2199.	" " " " vaginal, $\frac{3}{4}$ ounce, . . . . .	50
2200.	" " " " " $1\frac{1}{2}$ " . . . . .	75
2201.	" " " " post nasal, . . . . .	90
2202.	" " " " glass barrel, intra-uterine, . . . . .	1 75
2203.	" " " " intra-uterine, . . . . .	1 00
2204.	" " " " ear, $\frac{1}{2}$ ounce, . . . . .	75
2205.	" " " " " 1 " . . . . .	1 00
2206.	" " " " dental, . . . . .	50
2207.	" " " " male, $\frac{3}{8}$ ounce, . . . . .	40
2208.	" " " " vaginal, with shield, $\frac{3}{4}$ ounce, . . . . .	75
2209.	" " " " male, ring handle, $\frac{3}{8}$ " . . . . .	40
2210.	" " " " " " " $1\frac{1}{2}$ " . . . . .	1 00
2211.	" eye and ear, . . . . .	50
2212.	" Bulb, 6 ounce, . . . . .	1 00
2213.	" Davidson's, No. 1, . . . . .	2 00
2214.	" " " 2, . . . . .	1 50
2215.	" Alpha E, continuous flow, . . . . .	1 50
2216.	" Omega, " " . . . . .	1 00
2217.	" Fountain, 1 quart, . . . . .	1 00
2218.	" " 2 " . . . . .	1 15
2219.	" " 3 " . . . . .	1 25
2220.	" Fountain, and water bottle combined, 1 quart, . . . . .	1 75
2221.	" " " " " " 2 " . . . . .	2 00
2222.	" " " " " " 3 " . . . . .	2 25
2223.	Water-bag, 1 quart, . . . . .	1 25
2224.	" 2 " . . . . .	1 40
2225.	" 3 " . . . . .	1 65
2226.	Vaginal Irrigator, large, Healy's, . . . . .	1 50
2227.	" " small, " . . . . .	1 25
2228.	Perfection Douche, . . . . .	6 50
2229.	Vaginal " tin, 1 gallon, . . . . .	2 00

The boldface numbers represent instruments illustrated.







## RUBBER GOODS, ETC.

NO.		PRICE.
2235.	Breast Pump, Meigs', . . . . .	\$1 00
2236.	" " " with bulb, . . . . .	. 75
2237.	" " " flexible tube, . . . . .	50
2238.	Nipple Shield, " " . . . . .	35
2239.	" " " . . . . .	25
2242.	Round Bed Pan, rubber, . . . . .	2 75
2243.	Oval " " " with outlet tube, . . . . .	4 00
2244.	" " " " without " " . . . . .	3 50
2245.	Urinal, hard rubber, male, . . . . .	2 50
2246.	" " " female, . . . . .	2 50
2247.	" " pure gum, male, day, . . . . .	1 25
2248.	" " " female, night or day, . . . . .	2 50
2249.	" " " male, " " " . . . . .	3 25
2250.	" " " " " " " . . . . .	1 50
2251.	Water-coil, round, 5 inches, . . . . .	1 15
2252.	" " " 9 " . . . . .	1 85
2253.	" " " 13 " . . . . .	2 75



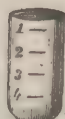
No. 2266.

2254.	Ice-bag, pure gum, flat, . . . . .	2 00
2255.	" " spinal, 12 inches, . . . . .	90
2256.	" " " 16 " . . . . .	1 00
2257.	" " " . . . . .	50
2258.	Water Bottle, 1 quart, . . . . .	1 50
2259.	" " 2 " . . . . .	1 75
2260.	Air Pillow, 10 x 16 inches, . . . . .	2 00
2261.	" Bed, 42 x 80 " . . . . .	27 00
2262.	Invalid Cushion, 10 inches, . . . . .	1 75
2263.	" " 12 " . . . . .	2 00
2264.	" " 14 " . . . . .	2 25
2265.	Rubber Finger Cots, different sizes, . . . . . each	10
2266.	" Water-coil, Larrabee's, for head, child's, . . . . .	2 85
2267.	" " " " " adult's, . . . . .	3 00
2268.	" " " " spine, . . . . .	3 50
2269.	" " " " abdomen, . . . . .	4 00

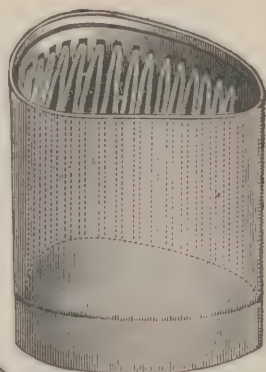
The boldface numbers represent instruments illustrated.



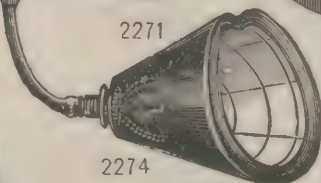
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2271



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2274



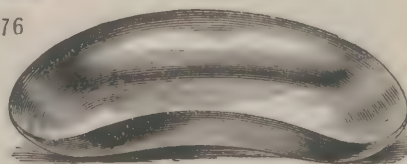
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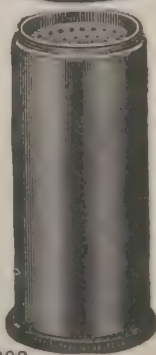
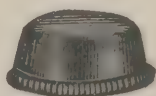
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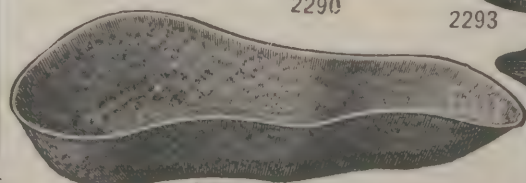
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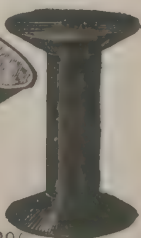
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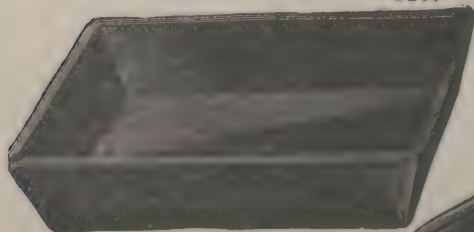
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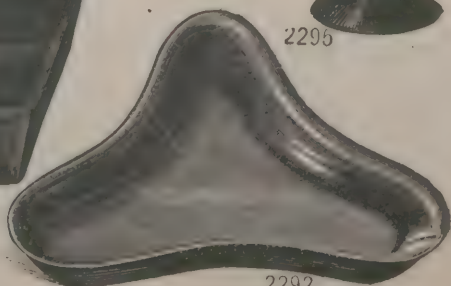
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2295



2299



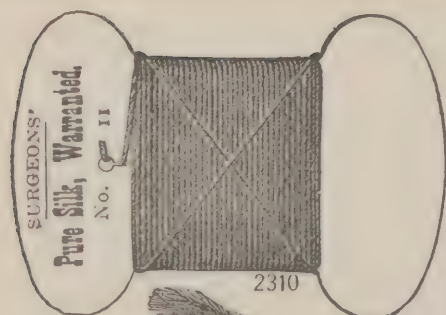
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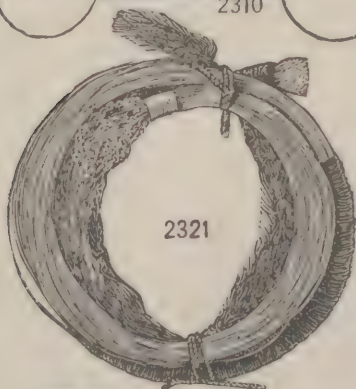
## SURGICAL REQUIREMENTS.

NO.		PRICE.
2270.	Ether Inhaler, "Perfection," . . . . .	\$2 50
2271.	" " Esmarch's, . . . . .	2 50
2272.	" " Allis', . . . . .	2 50
2273.	" " " folding, . . . . .	2 75
2274.	Chloroform Inhaler, Lente's, . . . . .	4 50
2275.	Ether Bottle, . . . . .	60
2276.	Bottle Holder, papier-maché, 2 ounce, . . . . .	50
2277.	" " " " 4 " . . . . .	65
2278.	" " " " 8 " . . . . .	90
2279.	Pus Basin, " " 8½ inches, . . . . .	25
2281.	" " " " 10½ " . . . . .	35
2282.	" " " " 12½ " . . . . .	60
2284.	" " hard rubber, 8½ inches (style of No. 2279), .	1 25
2285.	" " " " 10 " " " " " " " " .	1 40
2286.	" " " " 12 " " " " " " " " .	1 50
2287.	" " agate ware, 9¼ x 3¾ inches, " " " " " " " " .	1 00
2288.	" " " " 10½ x 4¼ " " " " " " " " .	1 25
2289.	" " " " 11 x 4¾ " " " " " " " " .	1 50
2290.	" " brass, nickel-plated, 3 sizes, . . . . . each	1 00
2291.	" " enameled, Smith's, . . . . .	1 50
2292.	" " triangle, papier-maché, . . . . .	75
2293.	Iodoform Box, hard rubber, . . . . .	75
2294.	" " " " large, . . . . .	1 00
2295.	Spool, hard rubber, . . . . .	20
2296.	" glass, . . . . .	10
2297.	Tray, papier-maché, 4½ x 5½ inches, . . . . .	40
2298.	" " " 5 x 6½ " " " " " " " " .	60
2299.	" " " 8½ x 10½ " " " " " " " " .	1 00
2300.	" " " 10 x 12 " " " " " " " " .	1 25
2301.	" " " 12½ x 14½ " " " " " " " " .	1 65
2310.	White Silk, 14 sizes, . . . . . per reel	10
2311.	Iron-dyed Silk, 14 sizes, . . . . . "	10
2312.	White Braided Silk, 14 sizes, . . . . . "	20
2313.	Iron-dyed Braided Silk, 14 sizes, . . . . . "	25
2314.	White Cable Twist, 6 sizes, . . . . . per skein	20
2315.	White Silk, 3 sizes on a tablet, . . . . .	25
2316.	Iron-dyed Silk, 3 sizes on a tablet, . . . . .	25
2317.	White Braided Silk, 4 sizes on a tablet, . . . . .	45
2318.	Iron-dyed Braided Silk, 4 sizes on a tablet, . . . . .	50
2319.	White Silk, 3 sizes on spools in bottle of aseptic solution, . . .	50
2320.	Black " 3 " " " " " " " " " " . . .	50
2321.	Silk-worm Gut (100 strands), . . . . . per coil	75

The boldface numbers represent instruments illustrated.



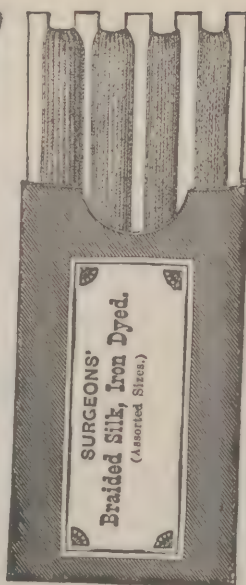
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2321



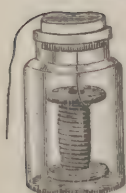
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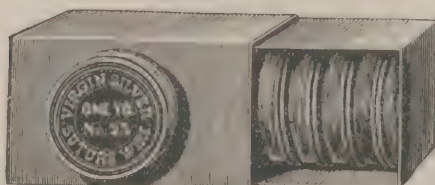
2318



2328



2323



2327

2333

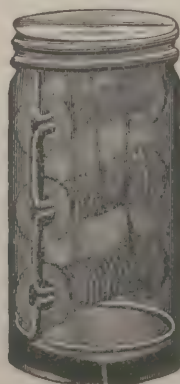
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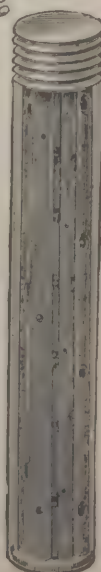
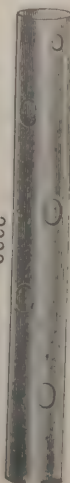
2324



2325



2332



# 186 WASHINGTON ST., BOSTON.

## SURGICAL REQUIREMENTS—Continued.

NO.		PRICE.
2322.	Catgut, 4 sizes, dry, . . . . . per coil	\$0 15
2323.	“ prepared, 1 size on spool in bottle, . . . . .	35
2324.	“ “ 1 coil in bottle, . . . . .	30
2325.	“ “ 3 sizes on spools in bottle, . . . . .	65

The prepared silks and catgut are put up in carbolated, juniper, chromated, or sublimated solutions.

2326.	Silver Wire, Sizes No. 21 to 30, . . . . . per dwt. coil	20
2327.	“ “ on spools, 1 yard each, . . . . . per spool	20
2328.	Pure Gum Drainage Tubes, from 12 to 22, French scale, per foot,	10
	From 22 to 30, . . . . . “	15
2329.	Pure Gum Carbolyzed Drainage Tubes, 6 sizes, assorted, in bottle,	40
2330.	Bone Drainage Tubes, 5 sizes, . . . . . from 25c. to	45
2331.	Hard Rubber Drainage Tubes, 5 sizes, . . . . . per inch	5
2332.	Glass “ “ 7 “ . . . . . from 10c. to	20
2333.	Ligature Spool, 4 glass spools in bottle, . . . . .	55
2338.	Sterilized Sponges, 1/2 dozen “ “ . . . . .	62
2339.	“ “ 1 “ “ “ . . . . .	85
2340.	“ “ abdominal, assorted sizes, . . . from 25c. to	2 25
2341.	Senn's Bone Plates, . . . . . per pair	2 00

## ANTISEPTIC GOODS.

### ABSORBENT COTTON.—PRICE PER PACKAGE.

	1 lb.	1/2 lb.	1/4 lb.	2 oz.	1 oz.
2345.	Plain Absorbent Cotton, . . . \$0 50	\$0 30	\$0 18	\$0 10	\$0 06
2346.	Borated “ . . . 65	35	20	12	7
2347.	Carbolyated “ . . . 65	35	20	12	7
2348.	CorrosiveSublimate “ . . . 65	35	20	12	7
2349.	Salicylated “ . . . 75	40	25	15	9
2351.	Absorbent Lamb's Wool, put up in 1 pound packages, . . each				1 75
	“ “ “ “ “ “ 1/2 “ “ . . “				1 00
	“ “ “ “ “ “ 1/4 “ “ . . “				55
	“ “ “ “ “ “ 1/8 “ “ . . “				30
	“ “ “ “ “ “ bulk, . . . . . per pound				1 70

### LINTS, JUTE, OAKUM, ETC.

2352.	Jute, plain, . . . . . per pound	25
2353.	“ tarred, . . . . . “	40
2354.	Lint, absorbent, 1 pound, . . . . .	65
	“ “ 1/2 “ . . . . .	35
	“ “ 1/4 “ . . . . .	20
	“ “ 1 ounce, . . . . .	7
2355.	“ borated, 10 per cent. . . . . per pound	1 00
2358.	Oakum, U. S. N., . . . . . “	18

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## ANTISEPTIC GOODS—Continued.

NO.		ANTISEPTIC GAUZES.	
		1 yd. x 1 yd.	1 yd. x 5 yds.
2361.	Gauze, plain, . . . . .	\$0 10	\$0 40
2362.	" sublimated, 1 to 2000, . . . . .	18	65
2363.	" borated, 10 per cent., . . . . .	20	75
2364.	" carbolated, 10 " . . . . .	18	65
2365.	" iodoform, 10 " . . . . .	30	I 25
2366.	Lister's New Antiseptic Gauze, double cyanide of mercury and zinc. Prepared after the formula of Sir Joseph Lister, Bart., F. R. S. In tin cans containing 5 yards, . . . . . per can		75
	" " " " 1 yard, . . . . . "		20

The 5-yard packages of gauzes can be furnished in cans or glass jars.

## OILED SILKS, MUSLINS, AND PROTECTIVES.—IN ROLLS.

		½ yd.	1 yd.	5 yds.
2370.	Oiled Silk, regular weight, 28 inches, . . . . .	\$0 60	\$1 00	\$4 00
2371.	" Muslin, " " 36 " . . . . .	40	75	3 00
2372.	" Silk Protective, green, 28 inches, . . . . .	85	I 50	7 00
2373.	" " " amber, 28 " . . . . .	65	I 20	5 50
2374.	Mackintosh Cloth, best quality, 36 inches, . . . . .	55	I 00	4 50
2375.	" " sheeting, 36 " . . . . .	50	95	4 25
2376.	Gutta Percha Tissue, medium, . . . . .	25	45	2 00
2380.	Antiseptic Gauze Absorbing Bandages, washed and ironed, thoroughly sterilized in boiling water; put up in neat boxes, first 4 sizes 2 dozen in a box, all other sizes 1 dozen in a box.			
	I inch x 3 yards, . . . . . per dozen			10
	1½ " x 3 " . . . . . "			30
	2 " x 3 " . . . . . "			37
	2½ " x 3 " . . . . . "			45
	2 " x 8 " . . . . . "			70
	2½ " x 8 " . . . . . "			85
	3 " x 8 " . . . . . "			I 00
	3½ " x 8 " . . . . . "			I 20
	4 " x 8 " . . . . . "			I 30
	3 " x 4 " . . . . . "			70
	3½ " x 5 " . . . . . "			I 00
	4 " x 6 " . . . . . "			I 30

## GAUZE BANDAGES.—MOIST OR DRY.

		1½ in.	2 in.	2½ in.	3 in.	3½ in.	4 in.
2381.	Plain, per doz. 10 yds.						
	long, . . . . .	\$0 75	\$0 90	\$1 05	\$1 20	\$1 35	\$1 50
2382.	Carbolyzed, 5% or 10%, 10 yards long, . . . . .	85	I 05	I 15	I 25	I 40	I 50

The boldface numbers represent instruments illustrated.



# 186 WASHINGTON ST., BOSTON.

## ANTISEPTIC GOODS—Continued.

NO.		1½ in.	2 in.	2½ in.	3 in.	3½ in.	4 in.
2383.	Borated, 5% or 10%, 10 yards long, . . . . .	\$0 85	\$1 05	\$1 15	\$1 25	\$1 40	\$1 50
2384.	Corrosive Sublimate, 10 yards long, . . . . .	85	1 05	1 15	1 25	1 40	1 50
2385.	Iodoform, 5% or 10%, 10 yards long, . . . . .	1 75	2 00	2 40	2 75	3 15	3 50
2387.	Roller Bandages, washed and ironed, pure, clean, well made, and superior in many respects to linen. Sterilized in boiling water.						
	1 inch x 1 yard, . . . . . per dozen						14
	1½ " x 3 yards, . . . . . "						40
	2 inches x 3 " . . . . . "						45
	2½ " x 3 " . . . . . "						55
	2 " x 8 " . . . . . "						1 20
	2½ " x 8 " . . . . . "						1 45
	3 " x 8 " . . . . . "						1 75
	3½ " x 8 " . . . . . "						2 00
	4 " x 8 " . . . . . "						2 50
	3 " x 4 " . . . . . "						1 00
	3½ " x 5 " . . . . . "						1 45
	4 " x 6 " . . . . . "						2 00
2388.	Flannel Bandages, all wool, red or white.						
	1½ inch x 3 yards, . . . . . per dozen						1 50
	2 inches x 3 " . . . . . "						1 75
	2½ " x 3 " . . . . . "						2 15
	2 " x 8 " . . . . . "						4 20
	2½ " x 8 " . . . . . "						4 75
	3 " x 8 " . . . . . "						5 50
	3½ " x 8 " . . . . . "						6 50
	4 " x 8 " . . . . . "						7 25
	3 " x 4 " . . . . . "						3 50
	3½ " x 5 " . . . . . "						5 00
	4 " x 6 " . . . . . "						5 50
2389.	Plaster of Paris Bandages, each packed in wax paper in a neat tin box. Spread on a new sterilized gauze material, which allows the plaster to set very quickly; also made by new machinery, which presses or imbeds the plaster into the gauze.						
	3 inches x 4 yards, . . . . . per dozen						1 50
	3 " x 6 " . . . . . "						1 90
	3 " x 8 " . . . . . "						2 40
	2 " x 5 " . . . . . "						1 20
	2½ " x 5 " . . . . . "						1 50
2390.	Dressing Paper, Mead's, 24 inch, 25-yard rolls, . . . . . per roll						75

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## ANTISEPTIC GOODS—Continued.

ADHESIVE PLASTERS.				PRICE.
NO.				
2393.	Surgeons' Rubber Adhesive Plaster, 7 inches x 1 yard,	per yard	\$0	35
2394.	" " " " 7 " x 5 yards,	per roll	1	00
2395.	" " " " 12 " x 5 " "	" "	1	35
2396.	Adhesive Plaster, on spools, $\frac{1}{2}$ inch x 10 yards, . . .	per spool		35
2397.	" " " " $1\frac{1}{2}$ " x 10 " . . .	"		50
2398.	" " " " 2 inches x 10 " . . .	"		60
2399.	" " " " 3 " x 10 " . . .	"		75
2400.	Isinglass Plaster, 7 inches x 1 yard, . . . . .	per yard		50

## ANTISEPTIC TABLETS.

2401.	Corrosive Sublimate, $7\frac{3}{10}$ grains, 25 in bottle, . . . . .	25
2402.	" " $7\frac{3}{10}$ " 50 " " . . . . .	50
2403.	" " $7\frac{3}{10}$ " 100 " " . . . . .	1 00
2404.	Hydronaphthol, 3 " 100 " " . . . . .	50

## WOOD WOOL.

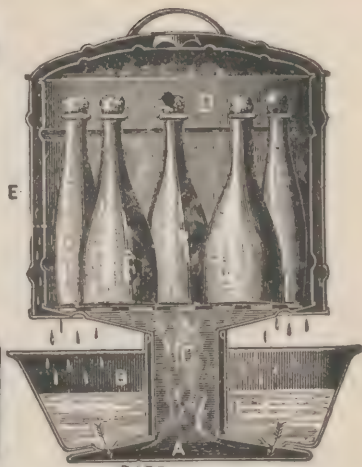
	2 oz.	4 oz.	8 oz.	1 lb.
2405. Plain, . . . . .	\$0 35	\$0 45	\$0 55	\$0 75
2406. Carbolated, . . . . .	40	50	60	85

- 2425.** Allen's Pump Outfit, consisting of 1  $3\frac{1}{2}$ -inch Pump and Tube, 1 Clamp to fasten to table or chair, 1 set Universal Connectors, 1 Tube Connector, 1 Glass Cupper, 1 Connector and Cut-off for same, 3 Aspirating Needles, 2 Tampons, 1 Uterine Dilator, small; 1 Uterine Dilator, large; 2 Silk Covers for same, 2 extra Rubber Bags for tampons, dilators, etc., 1 Olive-tip Catheter and connection; all in a neat velvet-lined leather-covered case, 15 00
- 2426.** Allen's Pump Outfit, consisting of 1  $3\frac{1}{2}$ -inch Pump and Tube, 1 extra Tube for same; 1 Clamp to fasten to table, chair, etc.; 2 sets Universal Couplings, 1 Tube Connector, 5 Glass Cuppers, 3 Connectors and Cut-offs for same, 1 Uterine Cupper, metal; 1 Stomach Tube and Connector, 1 Dome Trocar, 4 Aspirating Needles, 1 two-way Cock for injecting, 2 Tampons, 1 Uterine Dilator, small; 1 Uterine Dilator, large; 4 Silk Covers for same; 4 extra Rubber Bags for tampons, dilators, etc.; 1 Olive Tip Catheter and Connector, 5 Syringe Pipes (ear, post-nasal, vaginal, rectal, and uterine), 1 Breast Pipe; all in a neat velvet-lined leather bag, with lock and key, . . . . . 25 00
- 2427.** Arnold's Steam Sterilizer, . . . . . 3 00
- 2428.** Bandage Roller, plain, . . . . . 2 00

The boldface numbers represent instruments illustrated.



2425



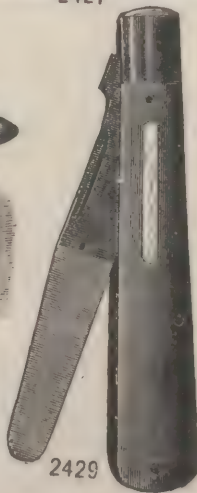
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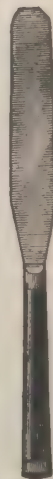
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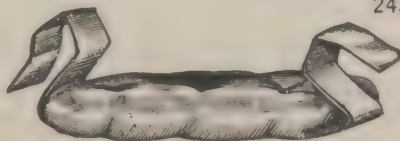
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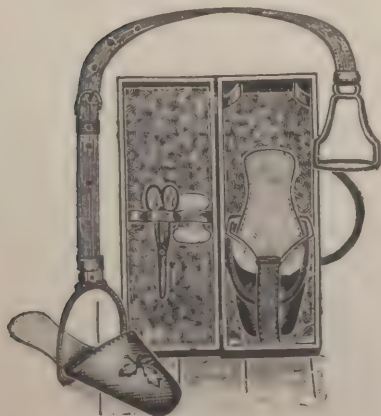
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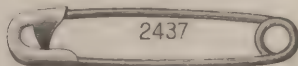
2430



2436



2435



2437

# C. H. GOLDTHWAITE & CO.,

## MISCELLANEOUS.

NO.		PRICE.
2429.	Spatula, pocket, . . . . .	\$0 75
2430.	" cocoa handle, 4 inch, . . . . .	25
2431.	" " " 6 " . . . . .	35
2432.	" " " 8 " . . . . .	50
2433.	" " " 10 " . . . . .	75
2434.	Medicine Dropper, straight or curved, . . . . . each	10
2435.	Obstetrical Slippers, Dr. Kline's, . . . . . per pair	7 00
2436.	Sanitary Pads for menstrual periods, . . . . . per dozen	60
2437.	Surgical Safety Pins, assorted, . . . . . " "	10

## REUBSAM'S MUSCLE BEATERS.

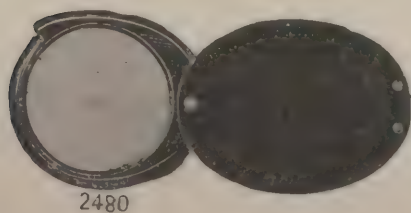
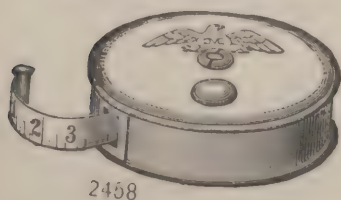
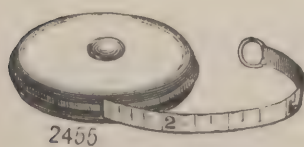
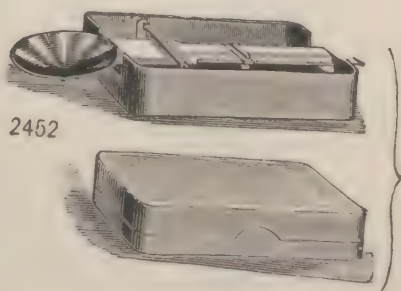
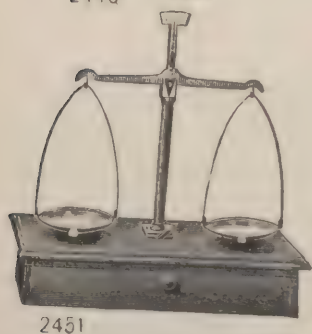
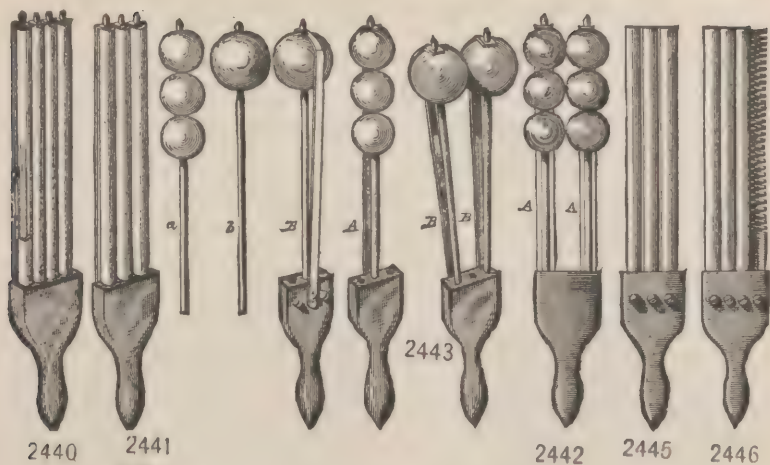
2440.	With four 1/2-inch Tubes, 10 inches long, and set screws, . . .	2 00
	Attachments:— A, Stick with 3 small balls, . . . . . per pair	1 00
	" B, " " 1 large ball, . . . . . " "	75
	" C, " " 2 medium balls, . . . . . " "	1 00
2441.	With three 1/2-inch Tubes, 10 inches long, and set screws, . . .	1 50
2442.	Six small Balls on one handle, . . . . .	1 40
2443.	Two large " " " " . . . . .	1 20
2444.	No. CC, four medium Balls on one handle, . . . . .	1 40
2445.	Three 1/2-inch Tubes, on spiral springs, 8 1/2 or 9 inches long, . .	1 50
2446.	Four 1/2 " " " " " 8 1/2 " 9 " " " . .	2 00
2447.	Two Balls on stick, with handle, . . . . . per pair	1 50
2448.	One Ball " " " " . . . . . " "	1 25
2449.	Three Balls on " " " . . . . . " "	1 50
2450.	One extra large Ball " " . . . . . " "	1 50
2451.	Prescription Scale, . . . . .	4 00
2452.	Pocket " Fitch's, capacity 1/2 to 20 grains, . . . . .	1 00
2455.	Tape Measure, nickel-plated case, 3 feet, . . . . .	50
2456.	" " " " " 6 " . . . . .	60
2457.	" " steel, Chesterman's, 3 feet, . . . . .	1 75
2458.	" " " " " 6 " . . . . .	2 00

## HUMAN OSTEOLOGY.

2460.	Skull, with lower jaw fastened with spring, best, . . . . .	8 00
2461.	" " one horizontal cut, . . . . .	10 00
2462.	" " " and one vertical cut, . . . . .	12 00
2463.	" disarticulated and mounted, . . . . .	50 00

The boldface numbers represent instruments illustrated.





**HUMAN OSTEOLOGY—Continued.**

NO.		PRICE.
<b>2464.</b>	Skeleton, . . . . .	\$35 00
<b>2465.</b>	“ best French, . . . . .	40 00
<b>2466.</b>	Arm, mounted according to Dr. Beauchene, for demonstrating the action of the muscles, . . . . .	45 00
<b>2467.</b>	Arm and Hand, on catgut, . . . . .	10 00
<b>2468.</b>	Ear, internal and median, with nerves and blood vessels, . . . .	25 00
<b>2469.</b>	Femurs, . . . . . per pair	2 25
<b>2470.</b>	Foot, strung on catgut, . . . . .	3 50
<b>2471.</b>	Hand, “ “ “ . . . . .	3 50
<b>2472.</b>	Leg and Foot, on catgut, . . . . .	10 00
<b>2473.</b>	Jaw Bones, mounted, under glass, . . . . .	22 50
<b>2474.</b>	Pelvis, female, with ligaments, . . . . .	12 50
<b>2475.</b>	“ “ without “ . . . . .	10 00
<b>2476.</b>	“ “ rubber and composition, . . . . .	22 50
<b>2477.</b>	Foetus to match, . . . . .	14 00
<b>2480.</b>	Magnifying Glass, single, . . . . .	40
<b>2481.</b>	“ “ double, . . . . .	75
<b>2482.</b>	“ “ triple, . . . . .	1 10

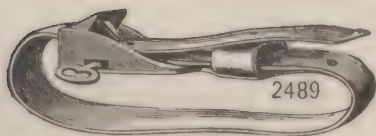
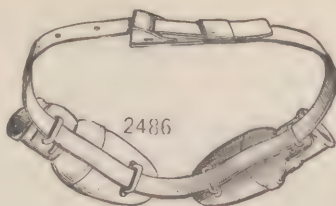
**RESTRAINTS.**

**CARE OF THE INSANE.**

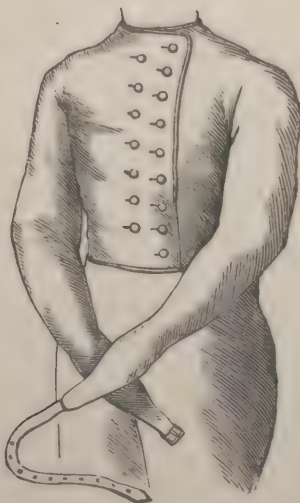
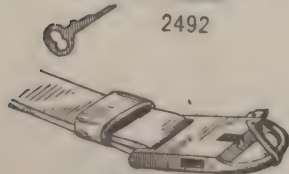
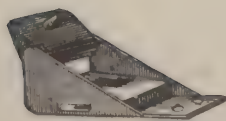
**MOST HUMANE AND APPROVED FORMS OF RESTRAINTS.**

<b>2485.</b>	Wristlets, . . . . .	5 50
<b>2486.</b>	Mitts, . . . . .	8 00
<b>2487.</b>	Anklets, with large buckle, . . . . .	6 00
<b>2488.</b>	“ “ small “ . . . . .	6 00
<b>2489.</b>	Shoe and Clothing “ . . . . .	2 00
<b>2490.</b>	“ Buckles with straps and loops, . . . . .	1 00
<b>2491.</b>	Lynch's Muff, . . . . .	8 00
<b>2492.</b>	“ Patent Lock Buckles, . . . . .	2 50
<b>2493.</b>	Straight Jacket, canvas, . . . . .	7 00
<b>2494.</b>	Lynch Bed Strap, . . . . .	10 00

The boldface numbers represent instruments illustrated.



2490

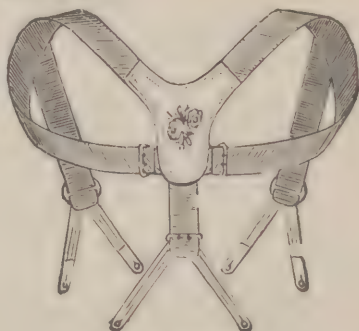


2493

SHOULDER BRACES.

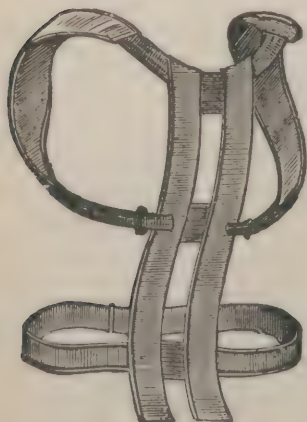


No. 2500.

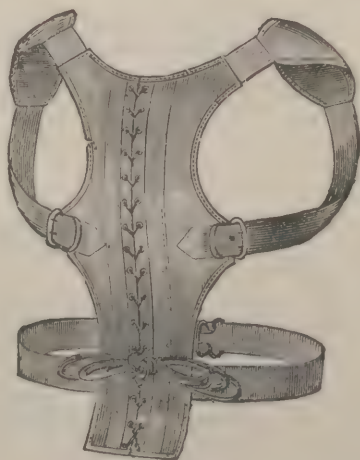


No. 2502.

NO.		PRICE.
<b>2500.</b>	Champion, men's, . . . . .	\$1 75
<b>2501.</b>	" women's, . . . . .	1 75
<b>2502.</b>	Crescent, men's, . . . . .	1 50
<b>2503.</b>	" women's, . . . . .	1 25



No. 2504.



No. 2506.

<b>2504.</b>	Steel Spring, women's, . . . . .	1 75
<b>2505.</b>	" " men's, . . . . .	2 00
<b>2506.</b>	Corset, women's, . . . . .	2 00

KNICKERBOCKER SHOULDER BRACES.

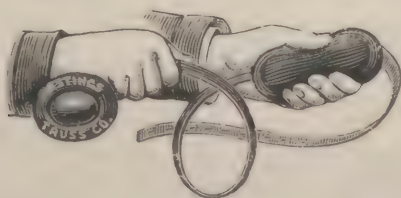
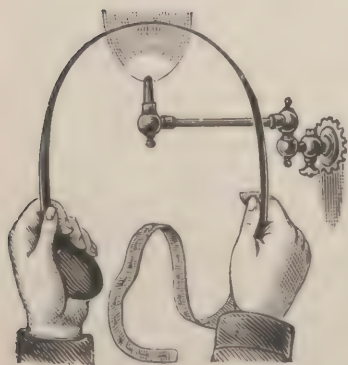
<b>2507.</b>	Cotton Webbing, men's, . . . . .	1 00
<b>2508.</b>	" " women's, . . . . .	1 00
<b>2509.</b>	Fine " men's, . . . . .	1 50
<b>2510.</b>	" " women's, . . . . .	1 50
<b>2511.</b>	Silk " men's, . . . . .	2 00
<b>2512.</b>	" " women's, . . . . .	2 00

*In ordering give chest measure.*

The boldface numbers represent instruments illustrated.



GENERAL DIRECTIONS  
FOR  
INCREASING OR DECREASING  
THE PRESSURE OF THE SPRINGS OF THE  
**Indestructible Hard Rubber Trusses,**

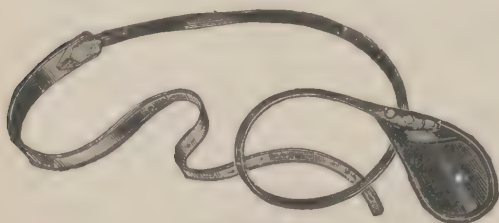


Oil the spring, warm it by passing quickly through a flame of gas, spirit lamp, or burning paper, heating spring from end to end equally on both sides, until warm to the hand: then gently coil the spring, making the circle smaller. The opposite movement (or uncoiling) will decrease its strength. This, by stretching the rubber on the **outside** and compressing it on the **inside**, or *vice versa*, while **heated** will increase or decrease the power of the spring in proportion to the amount of curve given it. The strength of the spring will remain unchanged until heated again.

TRUSSES.—HARD RUBBER.

In ordering Trusses, give circumference of body 2 inches below crest of ilium and note whether rupture is on right, left, or both sides.

Particular attention given to the application of Trusses, and physicians preferring to send their patients to be fitted can rely upon skillful and careful treatment.



No. 2515.

FRENCH PATTERN—SINGLE.

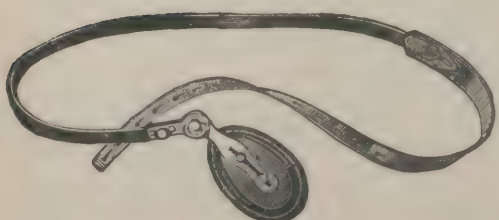
NO.	PRICE.
<b>2515.</b> Adult's, . . .	\$5 00
2516. Youth's, . . .	4 00
2517. Child's, . . .	3 00



No. 2518.

IMPROVED FRENCH.  
SINGLE.

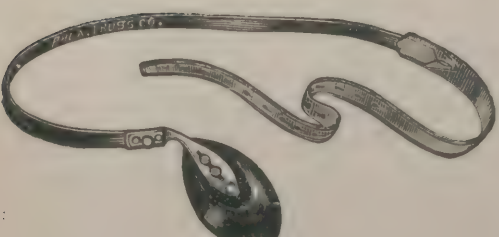
<b>2518.</b> Adult's, . . .	5 00
2519. Youth's, . . .	4 00
2520. Child's, . . .	3 00



No. 2521.

IMPROVED CHASE,  
FOR EITHER SIDE.—SINGLE.

<b>2521.</b> Adult's, . . .	5 00
2522. Youth's, . . .	4 00
2523. Child's, . . .	3 00



No. 2524.

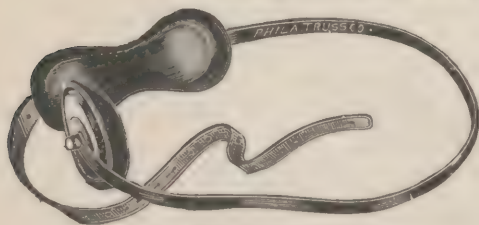
CHASE. SINGLE.

<b>2524.</b> Adult's, . . .	4 00
2525. Youth's, . . .	3 00
2526. Child's, . . .	2 00

25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.

TRUSSES.—HARD RUBBER—Continued.



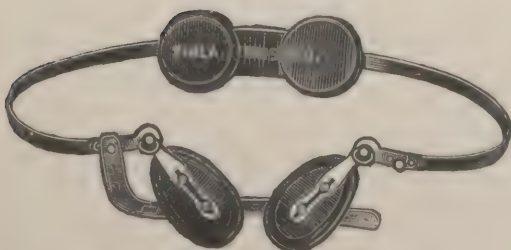
No. 2527.



No. 2530.



No. 2533.



No. 2536.



No. 2539.

CROSS BODY.—SINGLE.

NO.	PRICE.
2527. Adult's, . . .	\$5 00
2528. Youth's, . . .	4 00
2529. Child's, . . .	3 00

RADICAL CURE.—SINGLE.

2530. Adult's, . . .	6 50
2531. Youth's, . . .	5 00
2532. Child's, . . .	4 50

HOOD'S.  
SINGLE OR DOUBLE.

2533. Adult's, . . .	7 00
2534. Youth's, . . .	5 50
2535. Child's, . . .	4 50

CHASE IMPROVED.  
DOUBLE.

2536. Adult's, . . .	6 00
2537. Youth's, . . .	5 00
2538. Child's, . . .	4 00

FRENCH.—DOUBLE.

2539. Adult's, . . .	7 00
2540. Youth's, . . .	6 00
2541. Child's, . . .	5 00

~~25~~ 25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## TRUSSES.—HARD RUBBER—Continued.



No. 2541.

### CHILD'S TRUSS.

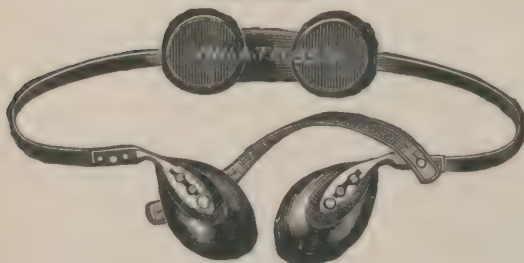
See No. 2541.



No. 2542.

### IMPROVED FRENCH. DOUBLE.

NO.		PRICE.
<b>2542.</b>	Adult's, . . .	\$6 50
2543.	Youth's, . . .	5 50
2544.	Child's, . . .	4 50

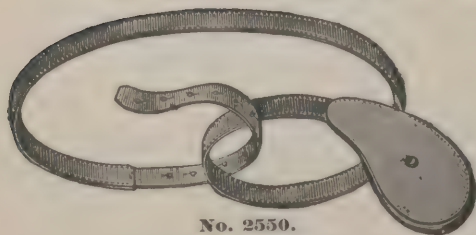


No. 2545.

### CHASE.—DOUBLE.

<b>2545.</b>	Adult's, . . .	6 50
2546.	Youth's, . . .	5 50
2547.	Child's, . . .	4 50

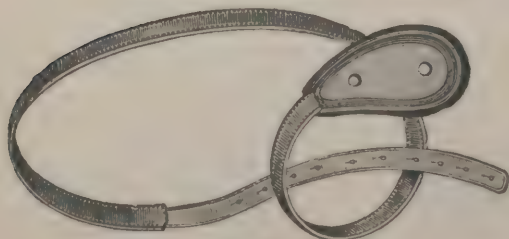
## TRUSSES.—LEATHER.



No. 2550.

### PLAIN FRENCH.—SINGLE.

<b>2550.</b>	Adult's, . . .	2 50
2551.	Youth's, . . .	2 00
2552.	Child's, . . .	1 50



No. 2553.

### FRENCH.—SINGLE.

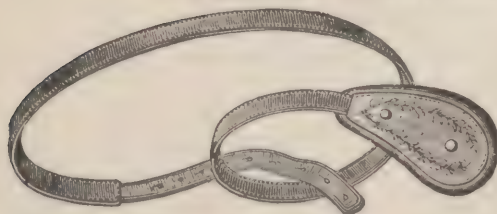
<b>2553.</b>	Adult's, . . .	3 50
2554.	Youth's, . . .	3 00
2555.	Child's, . . .	2 00

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.



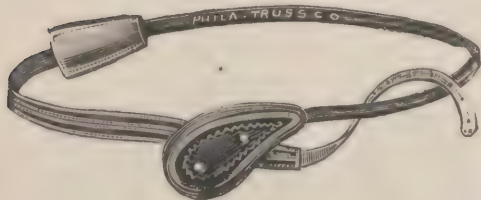
TRUSSES.—LEATHER—Continued.



No. 2556.

FINE FRENCH.—SINGLE.

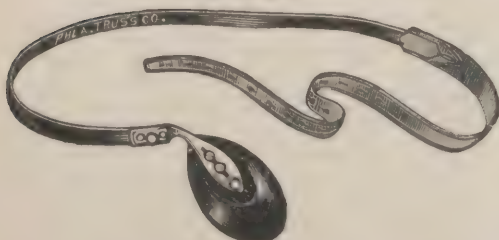
NO.	PRICE.
2556. Adult's, . . .	\$4 00
2557. Youth's, . . .	3 50
2558. Child's, . . .	3 00



No. 2559.

FINE FRENCH.—SINGLE.

2559. Light, for Ladies, . . . .	4 00
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No. 2560.

CHASE.  
SINGLE, WOOD PAD.

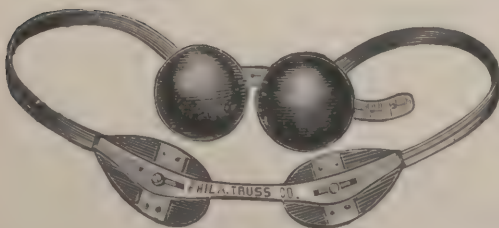
2560. Adult's, . . .	3 50
2561. Youth's, . . .	3 00



No. 2562.

ELASTIC.

2562. Single, adult's,	3 00
2563. Double, “	4 00



No. 2564.

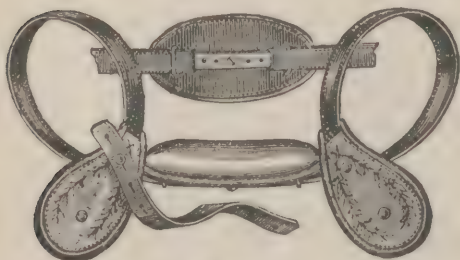
HOOD'S  
SINGLE OR DOUBLE.

2564. Adult's, . . .	6 00
2565. Youth's, . . .	5 00

*\$9-25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.

TRUSSES.—LEATHER—Continued.



No. 2566.

FINE FRENCH.—DOUBLE.

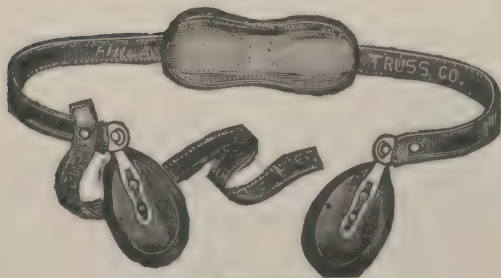
NO.	PRICE.
2566. Adult's, . . .	\$6 00
2567. Youth's, . . .	5 50
2568. Child's, . . .	5 00



No. 2569.

FRENCH.—DOUBLE.

2569. Adult's, . . .	4 50
2570. Youth's, . . .	4 00
2571. Child's, . . .	3 00



No. 2572.

CHASE.—DOUBLE.

2572. Adult's, . . .	6 00
2573. Youth's, . . .	5 50
2574. Child's, . . .	4 50



No. 2575.

GERMAN.—DOUBLE, WITH PERINEAL STRAPS.

2575. Adult's, . . .	6 00
2576. Youth's, . . .	5 00
2577. Child's, . . .	4 00

~~48~~ 25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.

186 WASHINGTON ST., BOSTON.

## THE WILKINSON TRUSS,

MANUFACTURED BY THE

WILKINSON TRUSS COMPANY (LIMITED),  
WILLIAMSPORT, PA.



No. 2578.

By means of this patent joint in the Wilkinson Truss the pressure can be regulated at will by the wearer to any degree desirable, either for comfort when at rest, or necessary for safety when undergoing straining exercises.

This instrument will furnish more pressure than can be endured, but the amount sufficient to retain a given hernia is only employed.

The pressure can be regulated to bear lightly upon one pad and heavier on the other, as is frequently required in multiple hernias.

It favors a *radical cure*, because it will furnish the exact pressure necessary to retain each particular hernia, thereby overcoming the devitalizing effect of hard pressure upon the tissues.

This truss will not chafe at any point, because it rests solely upon the pads. It cannot injure the spine, as it comes in contact only with the lumbar muscles and the hernia, thus forming a *comfortable support* instead of being a torture.

The direction of the pressure upon the hernia is upward and inward, producing the same effect as holding the rupture with the finger.

### DIRECTIONS.

Put the truss on the narrowest way of the body, the round spring in front and crossing the abdomen. If the rupture is on the right side, put the truss on from the left side, with the joint resting on the left hip, and *vice versa*. The flat pads on the back spring should rest, one on each lumbar muscle, an equal pressure on either side.

The round or front spring should then be conformed to the shape of the body.

When it is thus fitted, the hernia pad can be placed on the round spring and slid to the exact spot to cover the rupture without disturbing the fit of the truss, *i. e.*, the truss must not be shifted to adjust the pad, but the adjustment must be made on the round spring.

The boldface numbers represent instruments illustrated.



# C. H. GOLDTHWAITE & CO.,

When satisfactorily adjusted this pad is held permanently in position by setting the clamp screw down tight in the pad-holder. If the round spring should then project beyond the pad more than  $\frac{1}{2}$  inch it can be cut off with a three-cornered file. Then regulate the pressure by the traveling-nut in the joint.

Attach the strap on buttons provided for it. The strap is only used to help keep the truss in position, and should be worn with moderate tension.

To fit a double truss, proceed as in a single case, and adjust the pad on the spring so as to cover the hernia on the side nearest the joint in the truss, without paying any attention to the other side. When this is done adjust the other side precisely as in a single case.

**2578 A.** Single (Fig. 1).—The back of this truss is made from the best clock-spring steel, and so tempered as always to retain its elasticity; the joint and front spring are made of a non-corrosive metal. The front spring is flexible to take any shape and rigid enough to retain it. The joint is nickel-plated, and both springs beautifully covered with hard rubber, impervious to water or perspiration, making a very light and handsome instrument. . \$10 00

**2578 B.**—Is made of the same metal as Fig. 1, . . . . . 5 00

The whole truss is finely nickel-plated, but has a flexible rubber covering that can be removed when soiled and a new one replaced in a few moments at a nominal cost.

**2578 C.**—Is the same material and finish, but covered with leather, . . . 5 00

**2578 D.**—Is the Aluminum Silver Truss, made from an aluminum alloy entire, *non-corrosive*, and requires no covering. Both front and back springs are flexible, and can be adjusted to any form, without the aid of a lamp or heat, to fit like a finger-ring and almost as easy to wear, . . . . . 15 00

**2578 A.** Double (Fig. 3), . . . . . 12 00

**2578 B.** " " . . . . . 10 00

**2578 C.** " " . . . . . 10 00

**2578 D.** " " . . . . . 25 00

**2579 A.** Umbilical (Figs. 4 and 5), . . . . . 12 00

**2580  $\frac{1}{2}$ .** " and Inguinal (Fig. 6), . . . . . 15 00

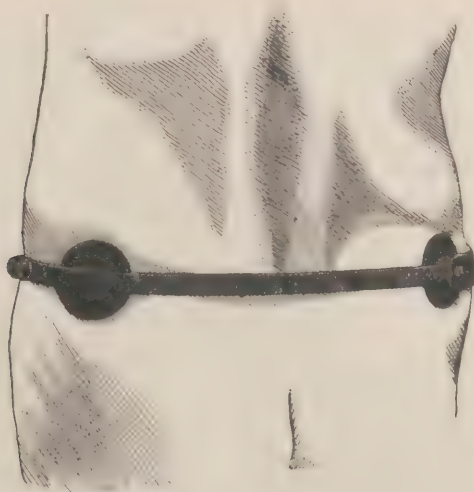


**Fig. 1.**

Fig. 1 represents the application of this truss on a right inguinal hernia.

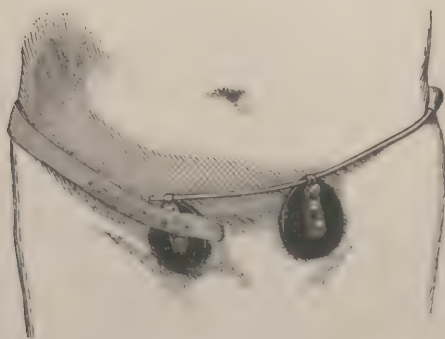
The boldface numbers represent instruments illustrated.





**Fig. 2.**

Fig. 2 represents the back view of the Wilkinson Truss, showing the position of the back pads on the lumbar muscles, leaving the spine entirely free from any pressure whatever.



**Fig. 3.**

Fig. 3 shows the application of the same truss to a double hernia. This change is made by the simple means of placing an extra pad on the front spring, and is adjustable to any position.

The boldface numbers represent instruments illustrated.



**Fig. 4.**

Fig. 4 shows the Umbilical Attachment to the same truss.



**Fig. 5.**

Fig. 5 shows the Abdominal Attachment.



**Fig. 6.**

Fig. 6 represents the combination of an inguinal and a ventral hernia

The boldface numbers represent instruments illustrated.

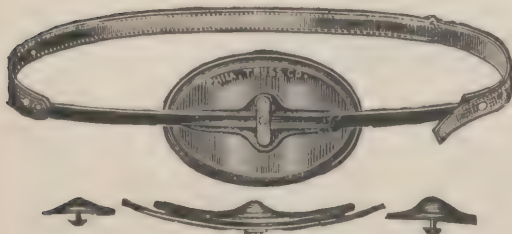
TRUSSES AND ABDOMINAL SUPPORTERS.



No. 2580.

FOR UMBILICAL HERNIA.  
HARD RUBBER.

NO.	PRICE.
2580. Adult's, . . .	\$6 00
2581. Youth's, . . .	4 50
2582. Child's, . . .	3 00



No. 2583.

FOR UMBILICAL HERNIA.  
CONTINUOUS SPRING,  
LEATHER-COVERED.

2583. Adult's, . . .	5 00
2584. Youth's, . . .	4 50
2585. Child's, . . .	4 00



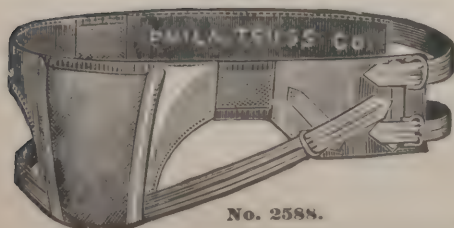
No. 2586.

2586. Fitch's Abdominal Supporter, 4 50



No. 2587.

2587. London Supporter, . . . 3 00



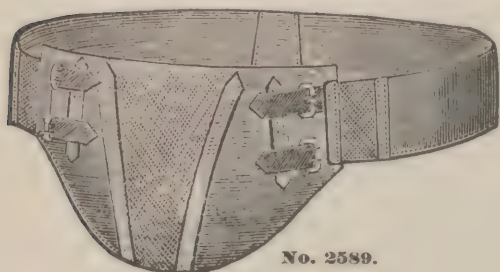
No. 2588.

2588. Silk Elastic Side-strap Belt Abdominal Supporter, . . . 5 00

25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.

ABDOMINAL SUPPORTERS AND BANDAGES.



No. 2589.

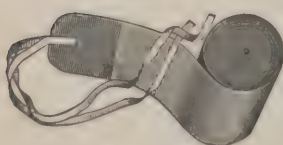
WOVEN ABDOMINAL SUPPORTERS.

NO.	PRICE.
2589. Silk, . . . .	\$9 00
2590. Thread, . . . .	7 50



No. 2591.

2591. Child's Umbilical Belt, rubber, with inflated pad, . . . . . I 50

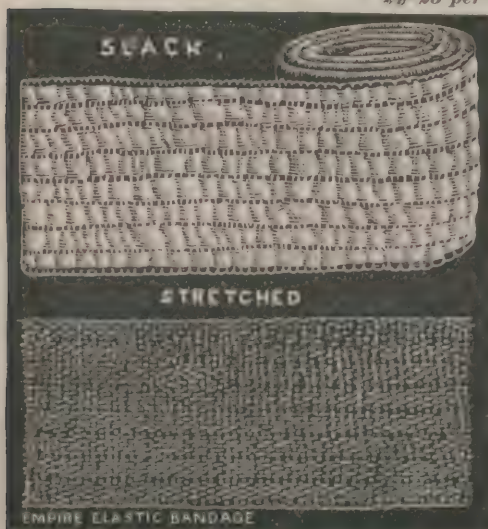


No. 2592.

MARTIN'S RUBBER BANDAGES.—WITH TAPES.

2592. 2	inches wide x 9 feet long, . .	75
2593. 2	" " x 12 " " . . . .	90
2594. 2	" " x 15 " " . . . .	I 10
2595. 2½	" " x 9 " " . . . .	I 00
2596. 2½	" " x 12 " " . . . .	I 15
2597. 2½	" " x 15 " " . . . .	I 40
2598. 3	" " x 9 " " . . . .	I 10
2599. 3	" " x 12 " " . . . .	I 40
2600. 3	" " x 15 " " . . . .	I 70

40-25 per cent. discount to Physicians.



No. 2603.

EMPIRE ELASTIC BANDAGES.

	NET
2603. 2 ins. x 3 yds.,	50
2604. 2 " x 5 "	65
2605. 2½ " x 3 "	60
2606. 2½ " x 5 "	75
2607. 3 " x 3 "	75
2608. 3 " x 5 "	I 00

EMPIRE ELASTIC ABDOMINAL SUPPORTERS.

2609. Ordinary length, 8 in. wide, . .	2 50
2610. Extra length, 11 inches wide, .	3 00
2611. All silk, 8 in. wide, . . . .	10 00

The boldface numbers represent instruments illustrated.



186 WASHINGTON ST., BOSTON.

DIRECTIONS FOR ADJUSTING.

**PHILAD'A TRUSS CO.,**  
Inventors and Sole Manufacturers.



**CHAMPION TRUSS,**  
PHILADELPHIA, PA.

Take the Truss and fit the Spring to the body of the patient by bending it open to make it weaker, or closing it to make it stronger, which can be done by gently manipulating with the hands. The Spring being malleable, no fear need be had of breaking it. After having the Spring to fit the body, take the Truss and turn the Pad around on the Swivel-ratchet, to the side the Hernia or Rupture is on, either right or left, thus bringing the Pad to the proper angle or position. After having adjusted the Pad and Swivel-arm, so as to get the required pressure, the parts can be held firm by tightening the Ring Screw, and when tightened, the Truss remains firmly fixed.

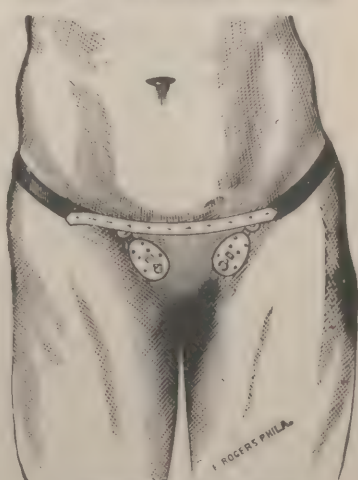
The above directions also apply to adjusting the Double Truss.

**CHAMPION SINGLE TRUSS.**



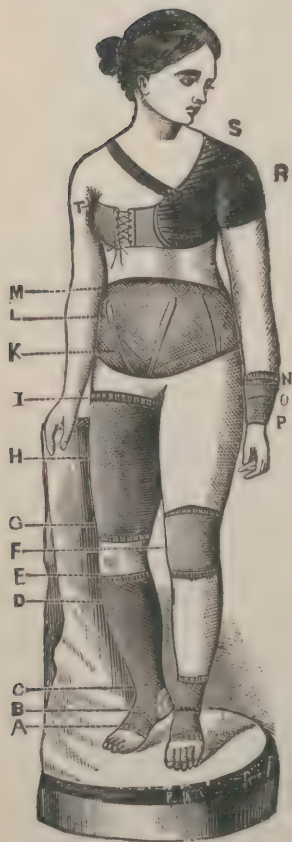
Applied to Right Side.

**CHAMPION DOUBLE TRUSS.**



Applied to Both Sides.

ELASTIC HOSIERY.



		EACH.	
		Silk.	Cotton.
2612.	Thigh Stocking—circumference at A, B, C, D, E, F, G, H, I, length from sole of foot to F and from F to I,	\$8 00	\$6 50
2613.	Thigh Piece—circumference at G, H, I, length from G to I, . . . . .	3 65	3 00
2614.	Knee Stocking—circumference at A, B, C, D, E, F, G, length from sole of foot to F, . . . . .	6 00	5 00
2615.	Knee Cap—circumference at E, F, G, . . . . .	3 00	2 00
2616.	Garter Stocking—circumference at A, B, C, D, E, length from sole of foot to E, . . . . .	4 00	3 00
2617.	Garter Legging—circumference at C, D, E, length from C to E, . . . . .	3 00	2 00
2618.	Anklet—circumference at A, B, C, length from sole of foot to C, . . . . .	3 00	2 00
2619.	Wristlet—circumference at N, O, P, length from N to P, . . . . .	1 75	1 25
2620.	Shoulder Cap—circumference at R, S, T, . . . . .	6 50	5 50

For Abdominal Supporter—circumference at K, L, M, length from K to M. See Figs. 2589 and 2590.

State whether silk or cotton.

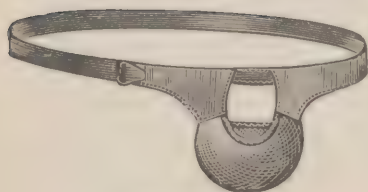
Give exact circumference and length in all cases. We allow for expansion.

Our Elastic Hosiery is made to order only, and Physicians may rely upon having nothing but fresh stock, and the best.

*25 per cent. discount to Physicians on Elastic Hosiery.*

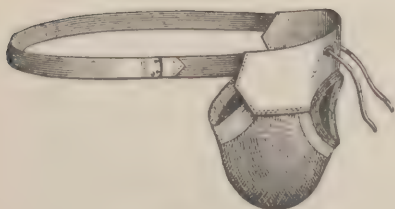
The boldface numbers represent instruments illustrated.

**SUSPENSORY BANDAGES.**



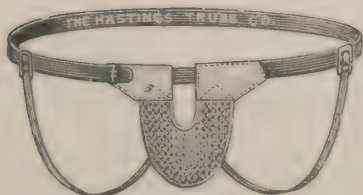
**No. 2623.**

NO.		PRICE.
<b>2623.</b>	Thread, with elastic front and back, . . . . .	\$0 50
<b>2624.</b>	Silk, with elastic front and back, . . . . .	75



**No. 2625.**

<b>2625.</b>	Thread, with draw strings.	60
<b>2626.</b>	Silk, " " "	85



**No. 2627.**

<b>2627.</b>	U. S. Army, silk, . . .	1 25
<b>2628.</b>	" " thread, . . .	1 10



**No. 2629.**

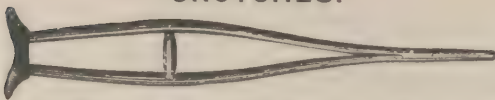





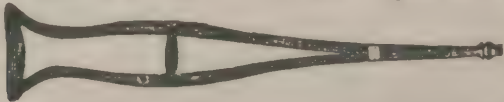
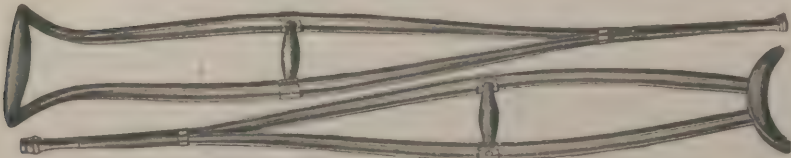
<b>2629.</b>	Thread, no elastic, . . .	40
<b>2630.</b>	Lisle Thread, " . . .	50

**25 per cent. discount to Physicians.**

The boldface numbers represent instruments illustrated.

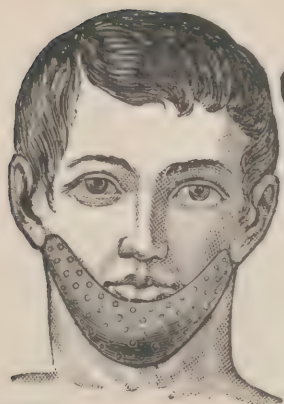
# C. H. GOLDTHWAITE & CO.,

## CRUTCHES.

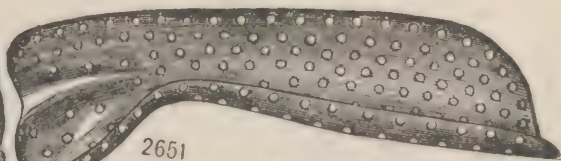
NO.		Per Pair,
2635.	 Strong Maple Split Crutch with Black Cherry Arm Pieces and Handles.	\$2 00
2636.	 Rock Maple Crutch with Round Top Arm Pieces and Plain Ferrules.	2 00
2637.	 Rock Maple Crutch with Soft Top Arm Pieces and Plain Ferrules.	3 50
2638.	 Rock Maple Crutch with Round Top Arm Pieces. { N. P. Metal Sockets and Rubber Bottoms.	4 00
2639.	 Rock Maple Crutch with Soft Top Arm Pieces. { N. P. Metal Sockets and Rubber Bottoms.	4 00
2640.	 Lancewood Crutch with Spring Tops, Whittemore. { N. P. Metal Sockets and Rubber Bottoms	10 00
2641.	 Rosewood Crutch with Spring Tops, Whittemore. { N. P. Metal Sockets and Rubber Bottoms	10 00
		
Nos. 2642 and 2643.		
2642.	The Pluche Patent Crutches, with adjustable handpieces. Made of selected hard wood, polished rods, with natural wood, dark rose-wood, or ebony finish; with spring top, . . . . .	7 50
2643.	Same as above, with wood top, . . . . .	6 50

~~10~~ 25 per cent. discount to Physicians.





2650



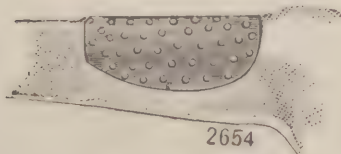
2651



2652



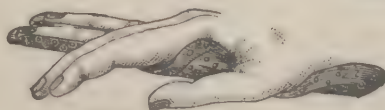
2653



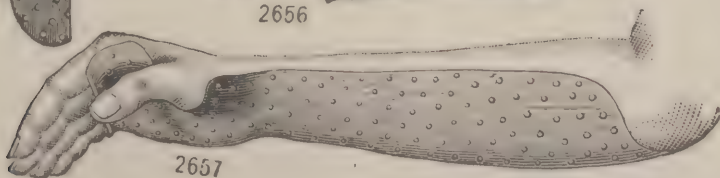
2654



2655



2656



2657



2658



2659



# 186 WASHINGTON ST., BOSTON.

## LEE'S PATENTED METALLIC SPLINTS.

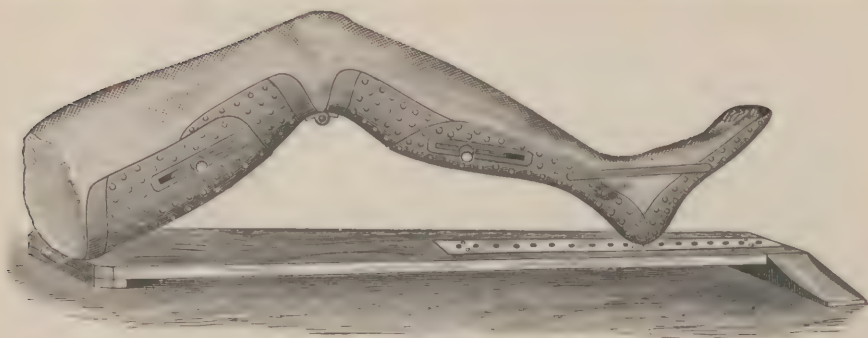
NO.		PRICE.
2650.	Maxilla, 2 sizes, . . . . .	each \$0 75
2651.	Radius, right or left, adult or child, . . . . .	" 1 00
2652.	Adjustable Angular for Arm, adult or child, . . . . .	" 1 50
2653.	Clavicle, " " " . . . . .	" 75
2654.	Humerus, " " " . . . . .	" 50
2655.	Phalanges, 3 sizes, . . . . .	" 15
2656.	Wilson's Metacarpal, adult or child, right or left, . . . . .	" 75
2657.	Improved Bond's, " " " " " " . . . . .	" 1 00
2658.	Ulna or Fore-arm, " " " " " " . . . . .	" 1 00
2659.	Combined Fore-arm, " " " " " " . . . . .	" 1 00
2660.	Posterior Elbow, acute angle, " " " . . . . .	" 1 00
2661.	" " right " " " " . . . . .	" 1 00
2662.	" " obtuse " " " " . . . . .	" 1 00
2663.	Club-foot and Weak Ankle Splint, children, 2 sizes, . . . . .	" 75
2664.	Anterior Patella, adult or child, . . . . .	" 1 00
2665.	Patella, " " " . . . . .	" 1 00
2666.	Anterior Tibia, " " " . . . . .	" 1 00
2667.	Tibia and Fibula, " " " . . . . .	" 1 00
2668.	External Ankle, " " " right or left, . . . . .	" 1 00
2668½.	Interior " " " " " " . . . . .	" 1 00
2669.	Femur, " " " . . . . .	" 50
2670.	Double Inclined Plane, adult or child, . . . . .	" 5 00
2671.	Combined Extension and Suspension Splints, without extension apparatus, . . . . .	5 00

These splints can be lengthened or shortened to fit any ordinary size, adult or child. They can be used either with or without the foot piece. They can also be used for extension in connection with any extension apparatus, Levis' preferred, and suspension and extension can both be applied at the same time if necessary, as represented in the cut.

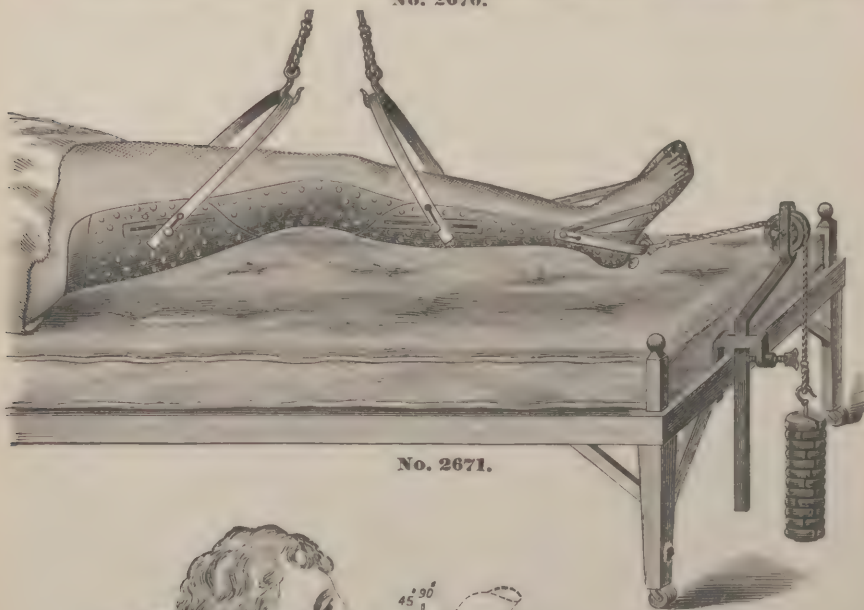
2675.	Set of Infants' Splints, 11 pieces, in walnut box, . . . . .	5 00
2676.	Fig. 1, . . . . .	\$0 75
2677.	" 2, . . . . .	1 00
2678.	" 3, . . . . .	25
2679.	" 4, . . . . .	10
2680.	" 5, . . . . .	50
2681.	" 6, . . . . .	50
2682.	" 7, . . . . .	25
2683.	" 8, . . . . .	75
2684.	" 9, . . . . .	75

Figs. 1, 2, 3, etc., refer to illustrations as shown in position.

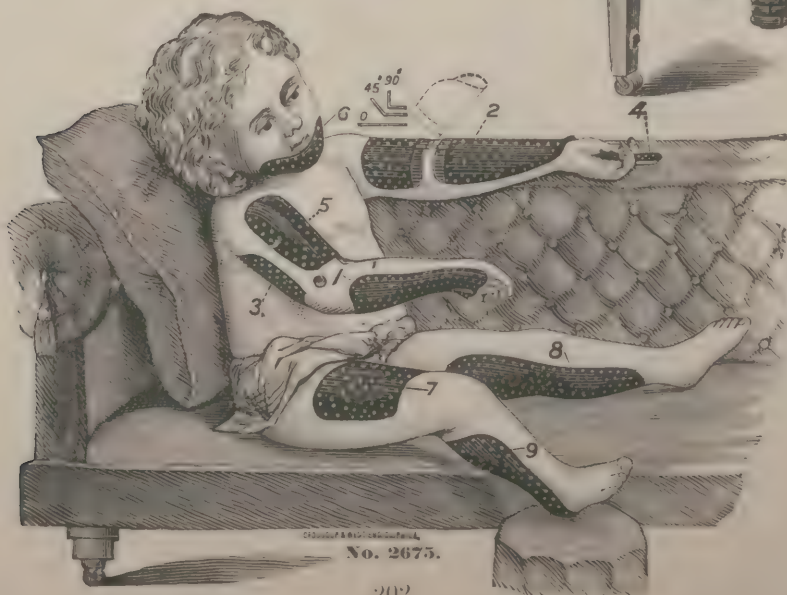
The boldface numbers represent instruments illustrated.



No. 2670.



No. 2671.



No. 2675.



**METALLIC SPLINTS—Continued.**

NO.		PRICE.
2685.	Set of Levis' Splints, containing 21 pieces, as follows: 4 Radius, 2 Adjustable Angular Splints for Arm, 2 Humerus, 3 Phalanges, 2 Clavicle, 2 Maxilla, 2 Femur, 2 Patella, 2 Tibia and Fibula; in neat cherry case with metal handle, . . . . .	\$15 00
2686.	Set of Levis' Splints, containing 40 pieces, 15 for adults, 14 for children, and 11 for infants; in neat cherry box with metal handle, . . . . .	25 00
2687.	Set as above without the infants', . . . . .	20 00
2688.	Complete Set of Levis' Splints of 75 pieces, 31 for adults, 31 for children, and 13 for infants; in neat cherry box with metal handle, . . . . .	75 00

**IMPROVED POROUS FELT SPLINTS.**

2689.	Inferior Maxillary,	adult, Fig. 1, . . . . .	50
2690.	" "	child, " 1, . . . . .	25
2691.	Clavicle,	adult, " 2, . . . . .	75
2692.	" "	child, " 2, . . . . .	50
2693.	Shoulder Cap,	adult, " 3, . . . . .	75
2694.	" "	child, " 3, . . . . .	50
2695.	Humeral,	adult, " 4, . . . . .	35
2696.	" "	child, " 4, . . . . .	25
2697.	Elbow, right or left,	adult, " 5, . . . . . each	75
2698.	" " " "	child, " 5, . . . . . "	50
2699.	Radial, " " "	adult, " 6, . . . . . "	75
2700.	" " " "	child, " 6, . . . . . "	50
2701.	Ulnar, " " "	adult, " 7, . . . . . "	75
2702.	" " " "	child, " 7, . . . . . "	50
2703.	Femoral, " " "	adult, " 8, . . . . . "	75
2704.	" " " "	child, " 8, . . . . . "	50
2705.	Knee-Joint, anterior, right or left,	adult, Fig. 9, . . . . .	1 00
2706.	" " " " " "	child, " 9, . . . . .	75
2707.	" " posterior, " " "	adult, " 10, . . . . .	1 00
2708.	" " " " " "	child, " 10, . . . . .	75
2709.	Tibial, anterior,	" " " adult, " 11, . . . . .	1 00
2710.	" " " " " "	child, " 11, . . . . .	75
2711.	Fibula, posterior,	" " " adult, " 12, . . . . .	1 00
2712.	" " " " " "	child, " 12, . . . . .	75
2713.	Straight Pieces for Fingers and Toes, . . . . .	" "	25
2714.	Club Foot (mention age), right or left,	child, Fig. 14, . . . . .	75
2715.	Levis Johnstone Palmar, " " "	adult, " 15, . . . . .	75
2716.	" " " " " "	child, " 15, . . . . .	75
2717.	" " Dorsal, " " "	adult, " 16, . . . . .	75
2718.	" " " " " "	child, " 16, . . . . .	75

The boldface numbers represent instruments illustrated.



**IMPROVED POROUS FELT SPLINTS—Continued.**

NO.		PRICE.
<b>2719.</b>	Combined Arm and Forearm, anterior right angle, right or left, adult only, Fig. 17, . . . each	\$2 00
<b>2720.</b>	“ “ “ “ posterior right angle, right or left, adult only, Fig. 18, . . . each	2 00
<b>2721.</b>	“ “ “ “ anterior obtuse angle, right or left, adult only, Fig. 19, . . . each	2 00
<b>2722.</b>	“ “ “ “ posterior obtuse angle, right or left, adult only, Fig. 20, . . . each	2 00
<b>2723.</b>	Forearm Condyle, anterior, right or left, adult only, Fig. 21, “	75
<b>2724.</b>	“ “ posterior, “ “ “ “ “ “ 22, “	1 00
<b>2725.</b>	Straight Splint for Elbow and Lower Third of Humerus, anterior, right or left, adult only, Fig. 23, . . . . . each	1 50
<b>2726.</b>	Straight Splint for Elbow and Lower Third of Humerus, posterior, right or left, adult only, Fig. 24, . . . . . each	1 50
<b>2727.</b>	Right Angle Elbow, anterior, right or left, adult only, Fig. 25, “	1 00
<b>2728.</b>	“ “ “ “ posterior, “ “ “ “ “ “ 26, “	1 00
<b>2729.</b>	Obtuse “ “ “ “ anterior, “ “ “ “ “ “ 27, “	1 00
<b>2730.</b>	“ “ “ “ posterior, “ “ “ “ “ “ 28, “	1 00
<b>2731.</b>	Metacarpal, index and middle fingers, right or left, adult, Fig. 29, . . . each	50
<b>2732.</b>	“ “ “ “ “ “ right or left, child, Fig. 29, . . . each	50
<b>2733.</b>	“ little and ring fingers, right or left, adult, Fig. 30, “	50
<b>2734.</b>	“ “ “ “ “ “ “ “ child, Fig. 30, “	50
<b>2735.</b>	“ thumb, right or left, adult, Fig. 31, . . . . . “	50
<b>2736.</b>	Metacarpal, thumb, “ “ “ “ child, Fig. 31, . . . . . “	50
<b>2737.</b>	Malleolus, internal, “ “ “ “ adult, “ 32, . . . . . “	1 00
<b>2738.</b>	“ “ “ “ “ “ child, “ 32, . . . . . “	1 00
<b>2739.</b>	“ external, “ “ “ “ adult, “ 33, . . . . . “	1 00
<b>2740.</b>	“ “ “ “ “ “ child, “ 33, . . . . . “	1 00
<b>2741.</b>	Fixation Splint, hip joint, anterior, right or left, adult, Fig. 34, “	5 00
<b>2742.</b>	“ “ “ “ “ “ “ “ “ “ 35, “	5 00
<b>2743.</b>	Femur, perineal and hip support, “ “ “ “ “ 36, “	3 00
<b>2744.</b>	Hinged Pelvis Splint, male or female, “ “ 37, “	7 50
<b>2745.</b>	Johnstone's Laced Splint for Knee, “ “ 38, “	10 00
<b>2746.</b>	“ Felt Jacket for Spinal Curvature, “ “ 39, “	25 00

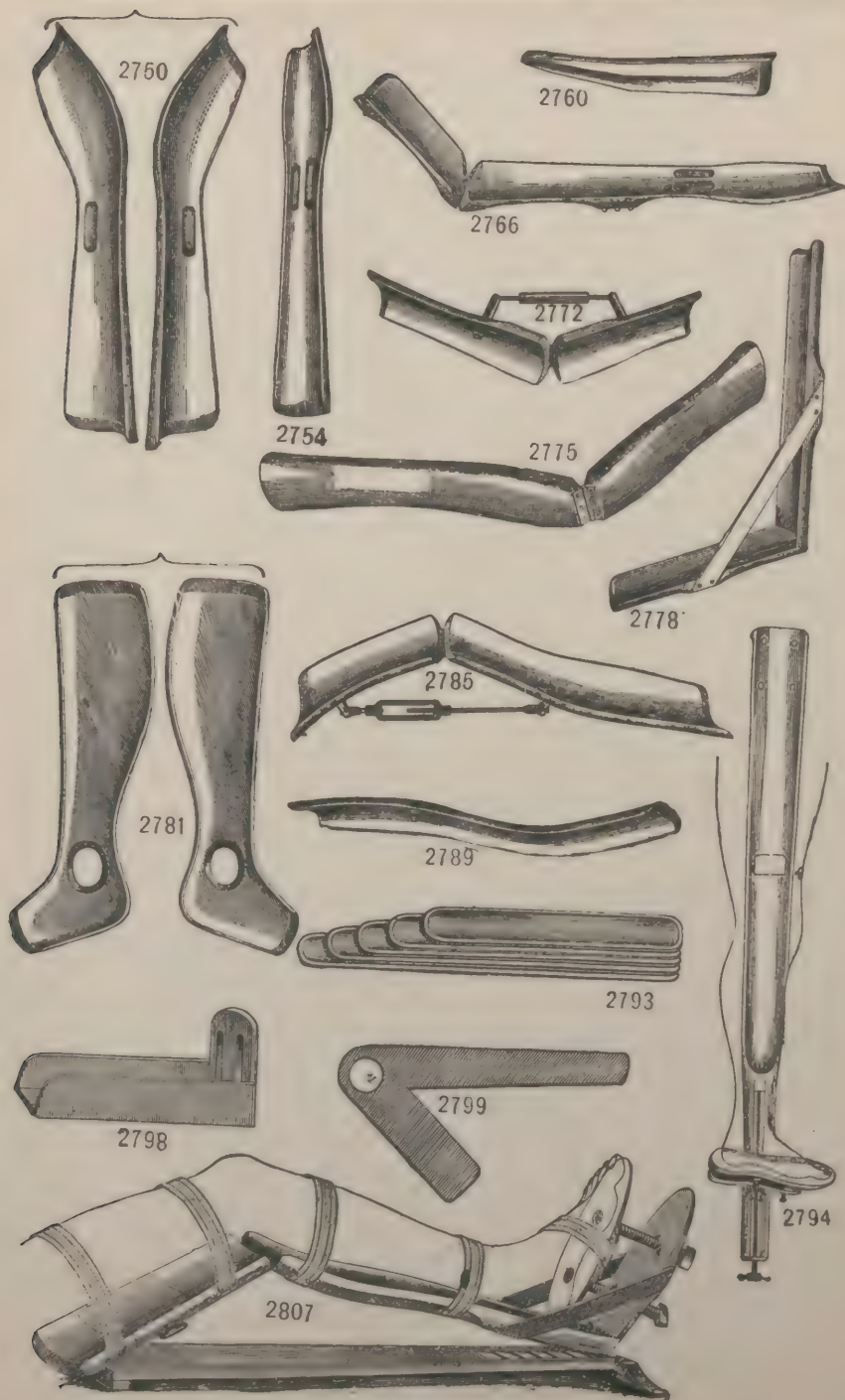
Nos. 2741, 2742, 2744, 2745, and 2746 are made to order only, and in any size desired.

Orders for No. 2746 must be accompanied by plaster cast of patient.

**2747.** Set of 50 pieces—25 adults' and 25 children's sizes, . . . . . 27 00

Numbers from 2689 to 2746 are represented on page 204 of illustrations, but for convenience we have used smaller numerals in addition to regular catalogue numbers.

The boldface numbers represent instruments illustrated.





## DAY'S IMPROVED WOOD SPLINTS.

NO.		PRICE.
<b>2750.</b>	Radius, right or left, size 1, smallest, . . . . . each	\$0 35
2751.	" " " " " 2, . . . . . "	40
2752.	" " " " " 3, . . . . . "	50
2753.	" " " " " 4, . . . . . "	60
<b>2754.</b>	Fore-arm Splint, " 1, smallest, . . . . .	50
2755.	" " " " 2, . . . . .	55
2756.	" " " " 3, . . . . .	60
2757.	" " " " 4, . . . . .	65
2758.	" " " " 5, . . . . .	70
2759.	" " " " 6, . . . . .	75
<b>2760.</b>	Interosseous, " 1, smallest, . . . . .	40
2761.	" " " 2, . . . . .	40
2762.	" " " 3, . . . . .	45
2763.	" " " 4, . . . . .	45
2764.	" " " 5, . . . . .	45
<b>2766.</b>	Squire's Fore-arm Splint, size 1, smallest, . . . . .	2 00
2767.	" " " " 2, . . . . .	2 00
2768.	" " " " 3, . . . . .	2 00
2769.	" " " " 4, . . . . .	2 00
2770.	" " " " 5, . . . . .	2 00
2771.	" " " " 6, . . . . .	2 00
<b>2772.</b>	Jointed Arm Splint, with screw, size 1, smallest, . . . . .	2 00
2773.	" " " " " 2, . . . . .	2 25
2774.	" " " " " 3, . . . . .	2 50
<b>2775.</b>	" Condyle and Humerus, " 1, smallest, . . . . .	85
2776.	" " " " " 2, . . . . .	1 00
2777.	" " " " " 3, . . . . .	1 25
<b>2778.</b>	Condyle and Humerus Splint, " 1, smallest, . . . . .	65
2779.	" " " " " 2, . . . . .	85
2780.	" " " " " 3, . . . . .	1 10
<b>2781.</b>	Ankle Splint, right or left, " 0, smallest, . . . . . each	65
2782.	" " " " " 1, . . . . . "	90
2783.	" " " " " 2, . . . . . "	1 15
2784.	" " " " " 3, . . . . .	1 35
<b>2785.</b>	Jointed Patella, with screw, " 1, smallest, . . . . .	1 75
2786.	" " " " " 2, . . . . .	2 00
2787.	" " " " " 3, . . . . .	2 25
2788.	" " " " " 4, . . . . .	2 50
<b>2789.</b>	Patella Splint, " 1, smallest, . . . . .	70
2790.	" " " " 2, . . . . .	80
2791.	" " " " 3, . . . . .	90
2792.	" " " " 4, . . . . .	1 10

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## DAY'S IMPROVED WOOD SPLINTS—Continued.

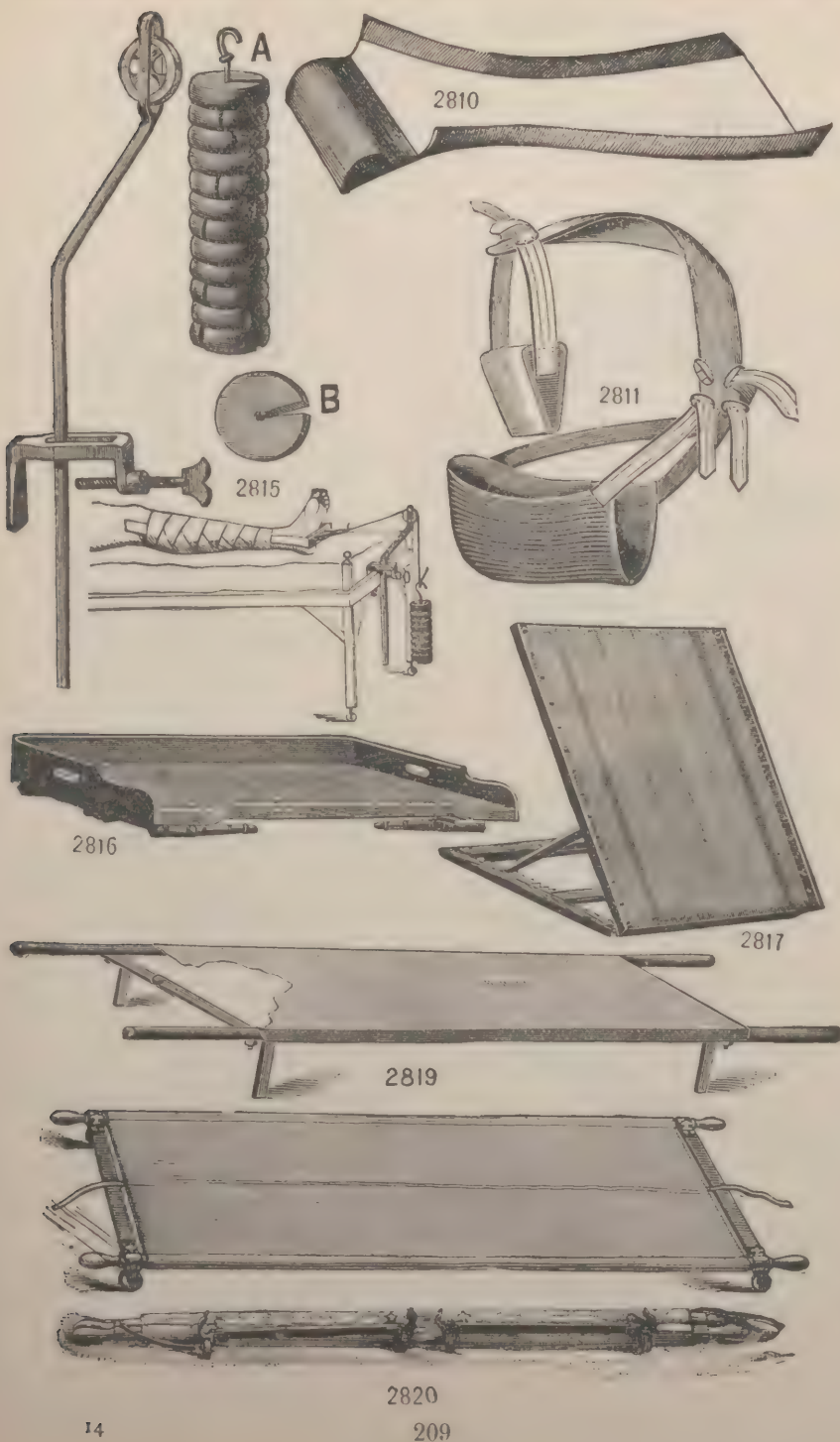
NO.		PRICE.
<b>2793.</b>	Set of Dressing Splints, 5 in set, . . . . . per set	\$0 50
<b>2794.</b>	Extension Bar, large, . . . . .	5 50
2795.	“ “ small, . . . . .	4 50
<b>2796.</b>	Fracture Box, large, . . . . .	2 50
2797.	“ “ medium, . . . . .	2 25
<b>2798.</b>	“ “ small, . . . . .	2 00
<b>2799.</b>	Internal Angular Splint for Arm, acute angle, 3 sizes, . . . each	40
2800.	“ “ “ “ “ right “ 3 “ . . . “	40
2801.	“ “ “ “ “ obtuse “ 3 “ . . . “	40
2802.	Anterior Angular Splint, right “ 3 “ . . . “	65
2803.	“ “ “ “ acute “ 3 “ . . . “	65
2804.	“ “ “ “ obtuse “ 3 “ . . . “	65
2805.	Flat Straight Splint for Arm, 3 sizes, . . . . .	25



No. 2806.

<b>2806.</b>	Pepper's Improved Stromeyer Splint, which permits of the forward and backward and also lateral movement of the arm, . . .	4 00
<b>2807.</b>	Double Incline Splint, large, . . . . .	5 00
2808.	“ “ “ medium, . . . . .	4 50
2809.	“ “ “ small, . . . . .	4 00
<b>2810.</b>	Bond's Splint, 4 sizes, . . . . . each	50
<b>2811.</b>	Levis' Splint for Fracture of Clavicle, . . . . .	3 75
<b>2815.</b>	“ Extension Apparatus, . . . . .	5 00
<b>2816.</b>	Folding Bed Trays, . . . . .	5 00
<b>2817.</b>	Bed Rest, . . . . .	4 00
<b>2818.</b>	Back, Arms, and Head Rest, . . . . .	7 25
<b>2819.</b>	Folding Stretcher on Feet, . . . . .	6 00
<b>2820.</b>	Sargent's Improved Folding Stretcher, . . . . .	8 50

The boldface numbers represent instruments illustrated.



C. H. GOLDTHWAITE & CO.,

THE "PERFECTION" CHAIR.

No. 2824.



NORMAL POSITION.



OCCULIST AND AURIST POSITION.



ELEVATING THE HIPS.



SIMS' POSITION.



DORSAL POSITION.



BACKWARD TO FORWARD RECLINING POSITIONS.  
CAN BE PLACED AT ANY INTERMEDIATE ANGLE.



FOR ANÆSTHESIA NARCOSIS.



HORIZONTAL POSITION.

NO.		PRICE.
<b>2824.</b>	Antique oak or walnut, maroon or green leather, . . . . .	\$70 00
" " " "	in embossed leather, . . . . .	80 00

The boldface numbers represent instruments illustrated.



The "Perfection" Chair is the only chair that embodies every position given by all other chairs, and many others that they are not capable of. In normal position the "Perfection" is like any handsome parlor rocker.

It is so balanced that the patient properly seated therein can recline at any angle without assistance, the operator being only required to secure the chair at the proper angle.

TO SECURE all ordinary positions only two things are to be remembered:—

(1) That all angles of the seat are governed by the *front ratchet*.

(2) That all angles of the back are governed by the *back ratchet*.

THE DORSAL POSITION is secured from horizontal position by the operator standing at right side and placing a finger around small knob under back of chair, and pulling same toward him, thus loosening the catches and permitting seat to drop.

THE SIMS POSITION is secured from horizontal position by placing foot on lift lever, and pressing down sufficiently to elevate chair on right side, until lever is automatically secured by catch.

The seat or back can be secured at as many angles as there are notches in the corresponding ratchets, and by loosening front ratchet can be rocked back and forth, which is essential at times in reviving patients when anesthetics are used.

THE FOOT LEAF catches automatically in two positions by simply raising it until brace falls into position, which in combination with rocker gives all the positions that can be desired.

The chair is made either of walnut, cherry, or antique oak, finished in oil or varnish, upholstered in leather or extra mohair plush, and handsomely decorated.

The patient is brought into position without being lifted forward or moved in any manner. The stirrups are always ready for use, and adjustable to different lengths and widths.

DIMENSIONS.—Seat in normal position is 23 inches high; in table position, 29 inches high. Length, 6 feet; width, between arms, 20½ inches; over arms, 30 inches. Weight, packed for shipment, 120 lbs.

With the "Perfection" Chair the various positions can be obtained after the patient is seated. It can by one movement be easily and noiselessly thrown into any position, from an angle of forty-five degrees to a level plain. The act of lowering the back also elevates the seat from twenty-three inches (which is the actual height when not in use) to twenty-nine inches, the required height for operating.

In addition to the positions shown in cuts, the "Perfection" is capable of many other adjustments, meeting all the requirements of the Surgeon, Gynecologist, Oculist, or Aurist.

In the use of anesthetics the backward movement also excels that of any other chair. In all chairs the backward movement ends when the patient is at an angle of ninety degrees. With the "Perfection" an up-and-down teetering movement tends to hurry up the vital forces, and bring back to life the almost inanimate patient. The simple lowering of the back is not sufficient to accomplish the desired result.

THE "HARVARD" CHAIR.

No. 2825.



A—Normal adjustment.



C—Full-length reclining position.



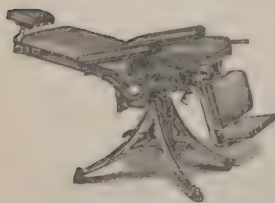
B—For operation upon the eye, ear, or throat.



G—For elevating the hips.



H—Three-quarter length reclining. I—For operations on hand or arm.



F—Dorsal Position.



D—Reclining, with head lowered.



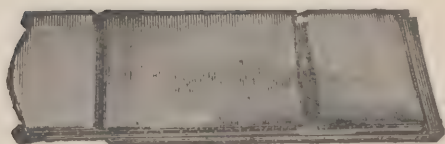
E—Sims' position.

NO.		PRICE.
2825.	The Harvard Chair, upholstered in dark green or maroon leather.	\$70 00
"	" " " " " embossed	80 00

The boldface numbers represent instruments illustrated.

THE "EUREKA" CHAIR AND TABLE, COMBINED.

No. 2826.



NO.						PRICE.
<b>2826.</b>	"Eureka" Chair,	cherry finish,	nickel-plated.	imitation leather,		\$25 00
	"	" oak or ash "	"	"	"	30 00
	"	" mahogany "	"	"	"	40 00

Upholstered in real leather, \$5.00 over the above prices.

Extra long Extension, \$5.00.

Head Rest for Throat Examination, \$5.00.

The Eureka Operating Chair is not only suitable for the general practitioner, but is perfectly adapted for the use of the specialist in gynecology, and throat, eye, and ear diseases.

By a simple movement it can be placed in any reclined position desired, making a most comfortable easy chair, and having no appearance whatever of its real use.

By still further lowering the back of the chair and raising the seat until the whole is on a level, we produce a perfect table thirty inches high and about five feet long. (We make an extra long head-piece, especially adapted for hospitals, and for surgeons who perform many operations with the patient lying at full length.) It is remarkably strong and stiff; six men, the combined weight of whom was over a thousand pounds, sat upon it at one time without straining it one particle.

The seat can be raised to form a head-rest.

To obtain the position for examinations and for treatment of cases in the Sims position, loosen the extension top (by a turn of a thumb-nut), draw it out, and attach to the right side.

The boldface numbers represent instruments illustrated.

If the patient is to be placed in the dorsal position, draw out the foot rests, leaving the extension on the right side, upon which instruments or other articles may be placed.

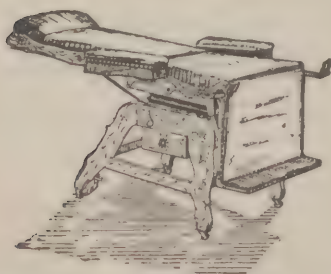
Should it be necessary to tilt the pelvis of the patient while in either of these positions, it can readily be accomplished by raising the back of the chair until the iron rod drops into the next higher slot. All these positions can be obtained at twenty-seven inches from the floor as well as thirty inches, to suit the convenience of the operator.

Another advantage this chair has is, it can easily be folded up to less than five inches in thickness, in readiness to be taken to the residence of the patient, if need be; or it can be packed away in a very small space. Weight 40 lbs.

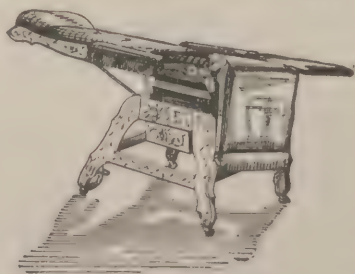
## THE "NEW INDIANAPOLIS" SURGICAL CHAIR.

NO. 2827. Showing a few positions of the "New Indianapolis" Chair, and all others are quickly and easily obtained; antique oak, upholstered in genuine leather, hair-stuffed; every chair guaranteed, \$45 00

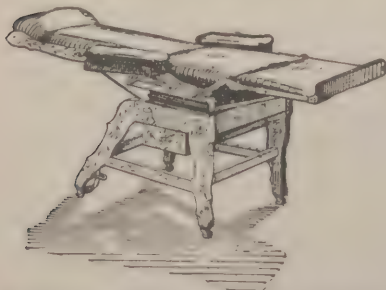
PRICE.



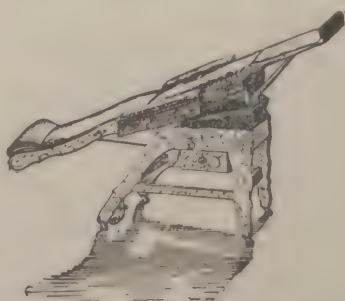
Dorsal or Gynecological Position. Our Stirrups are adjustable in every direction.



Sims' Position. Every chair finished in hand-buffed leather, and will never wear out.



Horizontal Position, answering all the requirements of any operating table.



For Anæsthesia Narcosis. Quickly obtained.

The "New Indianapolis" has no equal for simplicity and ease of operation. To THE PROFESSION.—The "New Indianapolis" Surgical Chair embodies all conveniences and advantages; is simple, strong, and durable; has *no triggers to get out of order*; is light and easily handled, and the handsomest chair on the market. We ask your patronage, and guarantee every chair to give perfect satisfaction.

The boldface numbers represent instruments illustrated.



# THE "YALE" PHYSICIAN'S CHAIR



Fig. I—Normal.

It is the only chair for the Physician that is Raised by a Pedal Lever and Lowered by an Automatic Device, without being whirled about on its base, and while occupied either in the *Sitting, Reclining, Horizontal, Sim's, Dorsal* or any other position.



Fig. XII— $\frac{3}{4}$  Length.



Fig. IX—Chloroform Narcosis.

It can be tilted backwards and forwards, rotated on its base, swung either to the right or left, or tilted either to right or left, while in any position.



Fig. XVI—Dorsal.



Fig. XIII—Sims.

## TO THE TRADE AND PROFESSION:

To those who may have been deterred from buying our chairs, in consequence of misrepresentations and threats made by unscrupulous persons, we wish to say:—The last decision of Mr. Justice Brown, (of the U. S. Supreme Court,) rendered Feb. 24th, 1891, places our "YALE" and "GOULD" chairs where they may be used without fear of prosecution and any person who interferes with purchasers in the rightful possession and use of the same will be held amenable to the law.



Fig. V—Semi-Reclining.



Fig. XV—Hips Raised.

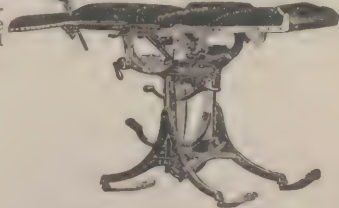


Fig. VII—Horizontal.

No. 2828.

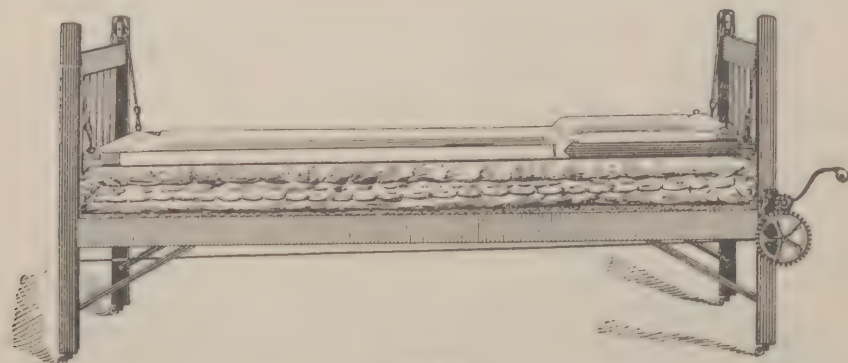
NO.		PRICE
2828.	Plain leather, . . . . .	\$75 00
	Embossed leather, . . . . .	90 00
2829.	The "Allison" Chair, plain leather, . . . . .	70 00
	" " " " embossed leather, . . . . .	85 00

The boldface numbers represent instruments illustrated.

## C. H. GOLDTHWAITE & CO.,

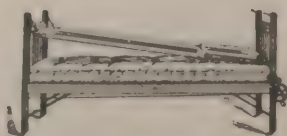
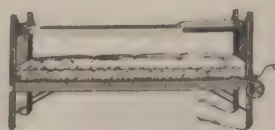
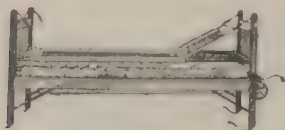
### THE HAMMOCK INVALID FOLDING BED.

The Hammock Invalid Folding Bed is 3 feet wide by 6 feet 6 inches in length: of hard wood with woven wire spring bottom and handsomely finished. The head and foot are firmly attached to the frame by double iron braces and fold entirely beneath it when not in use, without disturbing the hammock or bedding.



2830½.

The arrangement of pulleys, cords, and windlass, by which the various changes of position are made, is of the most simple and practical character, and so perfect in action that a child twelve years old can easily care for a helpless patient, lifting him entirely from the bed, raising and lowering the head or feet separately, or turning him by raising either side of the frame. The changes are effected by an easy adjustment of the pulley cords, and a few revolutions of the crank, and held at any point by an automatic key and ratchet.



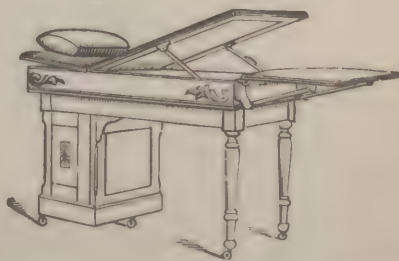
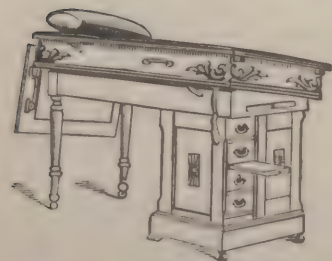
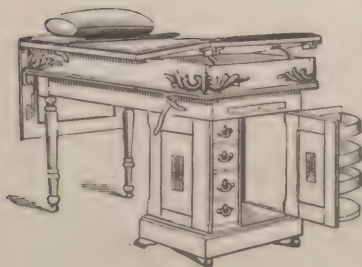
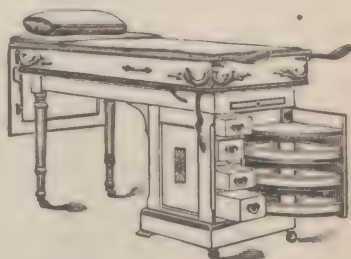
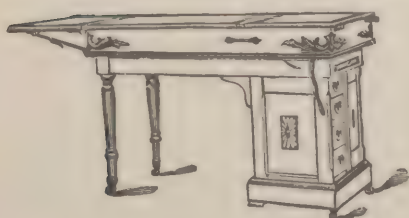
NO.	PRICE.
2830½. Bed complete, with Spring Bottom, Hammock, and Head-Rest,	\$16 00
Mattress extra. Cotton top, extra quality, \$3.00 Curled Hair, \$10.00.	

**HAMMOCK INVALID BED CO., Chillicothe, Ohio.**

a solid instrument shelf at each end, also large drawer at each end and two on the side, so you have places for instruments and bandages within reach; nothing in the way. The arm rest is separate; can easily be adjusted for either arms or legs; is upholstered and comes on level with the surface. The pillows are of different convenient sizes; they work on a grooved slide which is inlaid with brass moulding, and has a self-adjusting lock which holds them in any position; can be taken off. *The Stirrups* are nickel plated and adjustable to any desired horizontal or perpendicular position; readily lengthened or shortened. Each stirrup has a small clamp which can be easily attached to bed-rail or common table. A rubber cloth for sofa, which is held in position by stirrups, extends underneath the patient, and comes down at end in funnel shape, conducting drip into basin. Positions are adjustable to different patients, placing them in easy positions. All parts are completely disguised.

### THE "PERFECTION" TABLE.

No. 2831.



NO.	PRICE.
<b>2831.</b> The "Perfection Table," . . . . .	\$80 00

The boldface numbers represent instruments illustrated.

## C. H. GOLDTHWAITE & CO.,

In presenting to the medical and surgical profession our "Perfection" Table, we have succeeded in combining all the commendable, and eliminating all the objectionable, features of its many predecessors.

The accompanying cuts give a better description to the practical physician and surgeon than we can in writing, as they show many desirable changes and positions to be readily and noiselessly obtained, and while fully six feet in length when the extension leaf is raised, it is only four feet when the same is dropped, and is wide and roomy.

Most other surgical tables have their extension leaf at the foot, with a step at the bottom turned up in the way. You will observe our table is **strongest where most liable to need strength**. There is a handsome cabinet and set of drawers, with zinc trays for instruments, appliances, and dressings. The cabinet, being revolving, can be turned to the side of the table, thus enabling the operator to place one foot under the table, and get much nearer when desirable than with any other table.

Our device for elevating the hips is also very simple while very effective, and fastens at three different heights, as does our lateral tilt. Another very important feature with our tables is that all our fastenings are positive. We do not depend on a spring to hold any part, which would always be liable to slip at a critical moment and result disastrously to all concerned.

Our tables are all in full library top, highly polished finish on natural quarter-sawed wood, ornamented with elegant hand-carvings, with loose cushions and pillow, making it a **handsome office desk with flat or adjustable bevel top**, as well as the best operating table in the world.

### THE "ALLISON" TABLE.



No. 2832.

NO.		PRICE.
<b>2832.</b>	The Allison Operating Table, . . . . .	<b>\$85 00</b>

This table is readily changed from one position to another. It is provided with adjustable foot-pieces, which, when thrown into position, increase the length to six feet. It has a leather-cushioned top, and below there is a set of shelves and a case of drawers. Finished in cherry.

The boldface numbers represent instruments illustrated.



THE CROSBY INVALID BED.



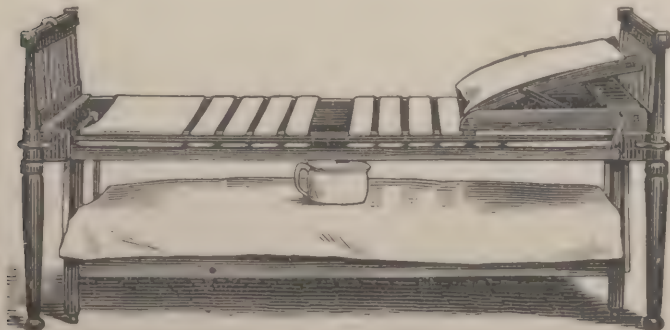
No. 2833.

NO.	PRICE.
2833. The Crosby Invalid Bed, . . . . .	. \$40 00

Helpless invalids will find that this bedstead will give comfort and ease when so exhausted from disease that they are obliged to be lifted from one bed to another to have it made up. It prevents bed-sores and will cure those already existing. It affords easy access to the body in cases of fractures, amputations, dysentery, acute rheumatism, the last stages of consumption, and typhoid fever attended with great prostration and involuntary discharges, permitting the clothing to be changed and the bed made up, thus securing perfect cleanliness without fatigue or annoyance, and allowing defecation to be performed without moving the patient. It is specially adapted for use in cases of child-birth.

One person can perform all the necessary duties to a sick person.

It is simple in its construction and not liable to get out of order.



No. 2833.

The boldface numbers represent instruments illustrated.

COLUMBIA ROLLING CHAIR.



No. 2835.

NO.	PRICE.
<b>2835.</b> Columbia Rolling Chair, adult's size, phaeton body, made of rattan, back 28 inches high, width of seat 17½ inches, depth of seat 19 inches, arm rests 11 inches high, seat covered with loose cloth cushion stuffed with curled hair, carpeted leg and foot rest, 4-inch front wheels, vulcanized flat rubber tired and bracketed on foot-rest frame, swiveling independent of each other, rear steel suspension wheels, 28 inches high, ½ oval iron tire, steel elliptic springs—altogether a handsome and comfortable chair; will carry any weight; will pass through a 28-inch doorway, . . . . .	\$40 00
Rubber-tire hind wheels on above chair, \$15.00 extra.	
Child's size, made to order, . . . . .	35 00
Rubber-tire hind wheels on above chair, \$15.00 extra.	

The boldface numbers represent instruments illustrated.

INVALID ROLLING CHAIR.



No. 2836.

NO.		PRICE.
2836.	Invalid Rolling Chair, oak, . . . . .	\$16 00

Caster wheel, 10 inches in diameter; will pass through a doorway not less than 28 inches wide.

Hand Rims added at additional cost of \$2.00.

In place of the regular Leg Rest this Chair can have the Extension Leg Rest, \$4.00 extra.

The Divided Extension Leg Rest, \$5.00 extra.

DIMENSIONS.

Height of back from seat, . . . . .	21	inches.
Width " seat, . . . . .	18	"
Depth " " from front to back, . . . . .	17½	"
Height " " " floor, . . . . .	20	"
" " " " foot-board, . . . . .	17	"
" " arms above seat, . . . . .	10½	"
" " wheels from floor, . . . . .	30	"

Weight of Chair, about 40 pounds.

The boldface numbers represent instruments illustrated.

INVALID CARRYING CHAIR.



No. 2837.

[Patented July 29, 1889.]

NO.	PRICE
<b>2837.</b> Invalid Carrying Chair, . . . . .	<b>\$12 00</b>

The above cut represents a carrying chair for carrying an invalid. It also makes a comfortable arm-chair; handles on front and back of chair, which can be extended out or lowered. Oak frame, well riveted; figured Brussels carpet on seat and back. Back, 31 inches high; width of seat, 20 inches; depth of seat, 18 inches; strong enough for the heaviest person.



PHYSICIANS' CABINETS.

**2838.** Physicians' Cabinet, . . \$25 00

It is a very tasty and convenient piece of furniture for office use, specially manufactured for the use of the gynecologist, surgeon, oculist, dentist, and the general practitioner. It comprises a desk top, five drawers, four revolving shelves, a towel rack, and a sliding table. The revolving compartment contains four shelves. Shelves are so arranged when open the operator has his instruments conveniently within reach. By closing and locking revolving compartment the four opposite drawers are also securely fastened. Mountings are nickel-plated or brass (stylish patterns), box-wood casters. We make them in

**Antique Oak and Solid Walnut.**

Height of cabinet, including desk-top railing, 60 inches; width of cabinet, 28 inches.

Height of cabinet, without desk-top, to railing, 40 inches; depth of cabinet, 16 inches.



**No. 2838.**



**No. 2839.**

**2839.** Physicians' Cabinet in antique oak or solid walnut, with top shelves, as per accompanying cut, . \$25 00

We have lately added to Physicians' Cabinets a neat and convenient top with shelves. Top space has a row of nickel-plate clamps for holding inhalent bottles; below there are two open shelves for keeping bottles, etc.

The boldface numbers represent instruments illustrated.

DEFORMITY APPARATUS.

NO.		SIZES FROM	DIAMETER OF WHEEL.	PRICE.
2845.	Improved Wheel Crutch, . . .	16 to 25 ins., . . .	4 ins., . . .	\$50 00
"	" " " . . .	25 " 35 " . . .	6 " . . .	60 00
"	" " " . . .	35 " 45 " . . .	8 " . . .	70 00
"	" " " . . .	45 " 55 " . . .	10 " . . .	85 00
Price of Supporters, to patients, range from . . . . .				\$5 00 to 15 00
Sunshades and Fixtures, from . . . . .				6 00 " 12 00
Toy Trays, . . . . .				2 50



No. 2845.

This is an admirable contrivance for patients who have lost control of their lower extremities, and for enabling them, as much as possible, to move freely about. The iron bars below the hand pieces are hollow to receive the upper bars, to which the breast and axilla pad is attached; the latter can be adjusted higher and lower, within the range of from 8 to 12 inches, according to size, and made firm by screws. The apparatus is constructed in such a peculiar manner to enable the patient to move at the least exertion, and to change the direction of movement at the slightest attempt. The wheels are bound with sole leather to prevent sound or jarring on the floor. For very helpless patients, a body support is attached, which can be adjusted to relieve the arms, and allows the patient to rest while using the crutch. This crutch is especially adapted for cases of hip-joint disease, diseases of the spine, paralysis, and deformities of the legs and feet.

For those who wish to exercise in the open air we furnish a sunshade or parasol similar to those commonly used on baby carriages—the circular shaped top admitting of their being placed in almost any position. For the use and amusement of small children we have also constructed trays that may be attached to the front of the crutch and used either for food or playthings: altogether this apparatus offers many advantages and will prove useful in many cases of paralysis.

MEASUREMENTS REQUIRED.

1. Width of the body in *direct* line from arm-pit to arm-pit.
2. Distance from arm-pit to floor.
3. Circumference of waist over underclothing when support is needed.
4. (To measure width of body correctly, place a ruler under each arm close to the body, projecting in front, *parallel*, and take distance between, not following curve of breast.)

The boldface numbers represent instruments illustrated.

## DEFORMITY APPARATUS.

*Appreciating your interest in our behalf, we will allow the Profession a commission of 25 per cent. on all orthopedic cases brought to us when apparatus are applied.*

## GUIDE FOR MEASUREMENTS.

In correcting the deformities of the human frame many styles of apparatus are requisite, as each instrument in this department must be made to suit each particular case; consequently our illustrations will only show those apparatus in most general use; but in the ordinary cases, as well as in the more complicated, it is essential that accurate measurements be given, and the accompanying chart will give a general idea of how to take them.

We have endeavored to give at least one illustration of each of the cases most commonly brought to the physician's notice, and with the directions which are given with each, and noting the details in full with each peculiar case, we will be enabled to make a brace to fit accurately without seeing the patient, which will be an advantage when it may be inconvenient to have the patient come to us.

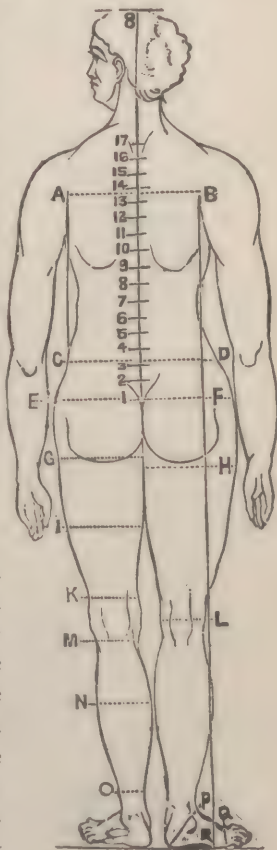
In extreme cases it becomes necessary, frequently, to make a plaster cast of the deformed parts, which enables us to work with greater precision, and with the plaster cast as a guide (where we cannot see the patient) greater efficiency is attained, making a more comfortable instrument for the correction of the trouble; and while it may be properly adjusted and doing service, it is liable to cause the patient some inconvenience until he becomes accustomed to its use.

As before stated, each case requires its own particular apparatus; it therefore becomes necessary for us to mention that a partial payment for the instrument must be made when the order is given, and balance when delivered.

We guarantee all our work.

It frequently is the case, when an instrument is well fitted, that in a month or two the patient has grown away from the brace, so to speak, showing an improved condition, and it will at such times be well to have the brace again fitted to the parts. This may be repeated until a complete correction of the deformed parts is effected.

We prefer to work on our own measurements, and to see the patients in all cases possible.



No. 2850.

The boldface numbers represent instruments illustrated.

DEFORMITY APPARATUS—Continued.

NO.	PRICE.
<b>2851.</b> Roberts' Torticollis Brace, . . . . .	<b>\$25 00</b>

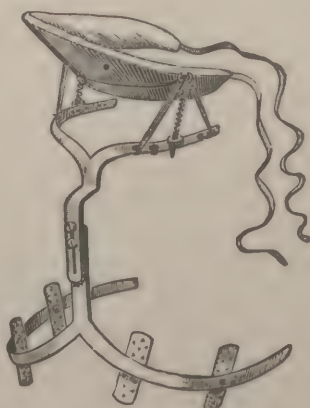
This brace is for the purpose of securing, at the seat of disease, continuous elastic vertebral extension and voluntary articular motion, together with the avoidance of inter-articular pressure and friction. It consists essentially of two encasements, an upper or cervico-cephalic, and a lower or cervico-trunkal segment. The superior one has a clasp under the chin, which can be opened or closed by means of a key, thus permitting of easy removal or reapplication. The inferior one is provided with a hinge posteriorly and a clasp anteriorly. The surfaces pressed upon by these two enveloping segments serve as points for counter-pressure. Elastic linear extension of the cervical spine is effected by means of two strong spiral springs playing upon upright steel rods, which are placed on either side of the neck. The degree of elastic traction force which is exerted can be regulated by the thumb-screws, which support the spiral springs on the steel rods. The upright rods are provided with a ball-and-socket joint at their lower end, thus permitting all the normal movements of the head to be made, while at the same time elastic extension is enforced.



No. 2851.



No. 2852.



No. 2853.

<b>2852.</b> Markoe's Torticollis Brace, . . . . .	<b>\$30 00</b>
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This apparatus is principally the same as the one before named. A ball and clamp socket joint allows movements of the head into the proper position.

The boldface numbers represent instruments illustrated.



## DEFORMITY APPARATUS—Continued.

A short stem projects backward from the back of the headband, terminating in a ball, which is grasped by a clamp at the end of the upright bar passing up along the spine. The pressure of this clamp is regulated by a thumb screw, which is tightened after the end has been brought into proper position.

## MEASUREMENTS REQUIRED.

When patient cannot call at our office a plaster cast of the involved parts of the deformity is desirable, or measurements as per directions given for 2854.

1. Sex of patient.
2. General appearance of patient.
3. Circumference of body between the crest of ilium and trochanter major.
4. Circumference of body under axilla.
5. Distance from sacro-lumbar articulation of the spine to the vertebræ prominens.
6. Distance from the same point to the base of the skull.
7. Distance from crest of ilium to axilla, each side.
8. Circumference of the head at the base of the skull, over the ears and upper line of the forehead.

NO.	PRICE.
2853. Roberts' Jury-Mast, . . . . .	\$30 00

This is an instrument which, while not extending over the head, will exert continuous elastic traction upon the diseased vertebræ, and permit of voluntary articular motion. It permits of all the normal movements of the head being made at the pleasure of the patient, or controlled and directed by the surgeon.

The lower part of the instrument is held between the layers of the plaster bandage, the shafts being curved forward under the arms, so as to bring its base beneath the part supported.

Directions for measurements as above.

2854. Sayre's Jury Mast, with three strips of tin, . . . . .	\$12 00
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This is an appliance frequently added to the plaster jacket, by which the weight of the head is lifted from the cervical vertebræ and transferred through the jacket to the hips. It consists of a padded collar supporting the chin in front and the occiput behind, from which rise four straps attached to a transverse bar above the head. This bar is suspended by a swivel-joint from an upright rod, which arches over the head and is attached below to the back of the jacket. This rod is adjustable in length, and at its entrance into the jacket below separates into two arms of steel, which lie on either side of the spine and are bent to fit the curve of the back. To these arms are attached two or more roughened tin strips, which pass horizontally almost around the body.

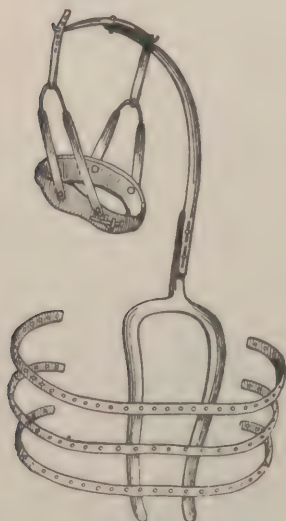
*Application.*—The patient is suspended and a few layers of the plaster roller applied in the usual manner. The arms of steel and the tin strips are bent so as to fit this plaster surface accurately, care being taken that the

The boldface numbers represent instruments illustrated.

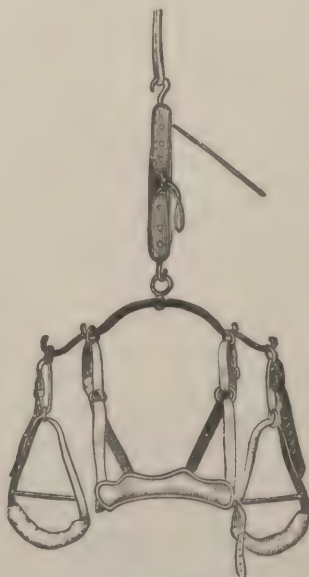
DEFORMITY APPARATUS—Continued.

upright rod shall extend in the line of the spinous process and that the tin strips shall not quite meet. Additional layers of plaster bandages are then applied to hold the apparatus in place.

*Measurements Required.*—1. Bend a flexible strip of lead to the contour of the back, commencing at the top of the head, carry along the spine to the sacrum, carefully remove and trace on paper, mark the position of the scapulæ, iliac crests, and disease. 2. Circumference: Top of head around chin; around cranium; pelvis below iliac crests.



No. 2854.



No. 2855.

NO.		PRICE.
2855.	Suspension Apparatus, . . . . .	\$12 00

It consists of a curved steel rod, having an eye in its centre and hooks at each end.

From the end hooks loops pass down under each axilla, and also to the chin and occiput, to support the head. The length of these loops can be graduated to suit every patient by separate straps and buckles that connect the loops with the steel rod. Those parts of the loops that pass under the axillæ and chin are well padded.

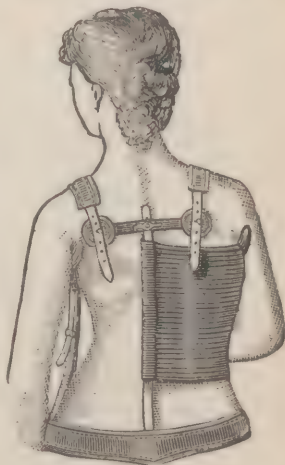
The whole apparatus is attached by the eye in the centre of the steel rod to one of a set of pulleys, and the opposite pulley being secured to the ceiling or some other safe attachment of sufficient height, the patient is easily elevated by the bands under the axillæ, chin, and occiput, until the heels cannot touch the floor.

The boldface numbers represent instruments illustrated.

## DEFORMITY APPARATUS—Continued.

NO.		PRICE.
<b>2856.</b>	Apparatus for Lateral Curvature of Spine, . . . . .	\$25 00

This brace is intended to fulfill two indications—to remove the weight of head and upper portion of the trunk from the affected vertebræ and transfer it to the pelvis, and to furnish constant elastic pressure upon the protruding ribs. It consists of a pelvic belt, two crutches attached to the sides of the belt, an upright bar attached to the back of the belt, and a broad band of elastic webbing passing from the upright bar obliquely around the protruding ribs and attached to the pelvic belt in front just beyond the middle line. The crutches are made to lengthen automatically by elastic bands, so that they yield to every motion of the body, but at the same time make constant yet gentle upward pressure. To give firmness to the upright bar and to support the upper part of the spine, two adjustable pads are attached to the upright bar and rest upon the shoulder blades. To each pad is hooked a shoulder-strap passing from the front horn of its corresponding crutch. The apparatus is light, and each portion which comes in contact with the body is softly padded. For measurements see No. 2858.



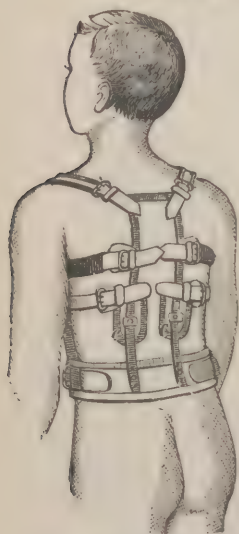
No. 2856.

<b>2857.</b>	Washburne's Apparatus for Posterior Curvature (Potts'), . . . . .	\$20 00
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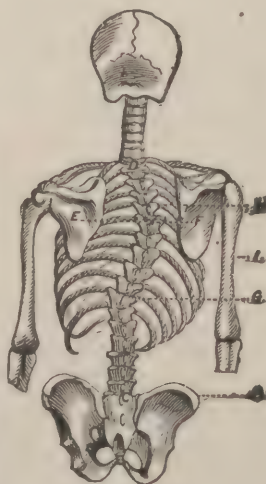
In the accompanying figure is a steel band which passes half way around the pelvis, just above the trochanters, and two flat bars of steel, parallel to each other, and curved upon their flattened sides to the form of the spine, to which the apparatus is fitted. These bars are curved a little less than the spine, so that when secured in position their elasticity will constantly operate to rectify the spinal curve. The cross-bar at the upper ends of the parallel ones is firmly riveted to them, and is to cross the back just above the spines of the scapulæ. At the ends of this bar are affixed buckles to receive the shoulder straps, with two movable pads which slide upon the bars to which they are attached—these are best stuffed with chopped cork. These compresses are to be brought one upon each side of the projecting knuckle of spine and secured firmly by means of the screws provided for that purpose. Buckles are attached to various parts of the brace, by means of which it is secured to the front part of the apparatus, which consists, as shown, of a piece of twilled muslin or other strong material, which covers the chest and abdomen and is provided with straps. Such parts as are in contact with the body are carefully padded. For measurements see No. 2858.

The boldface numbers represent instruments illustrated.

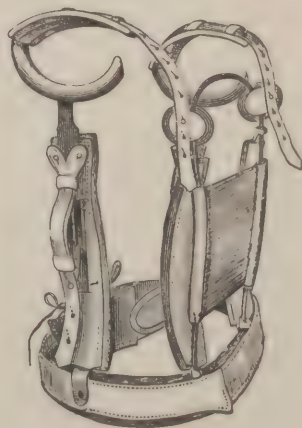
DEFORMITY APPARATUS—Continued.



No. 2857.



No. 2858.



No. 2859.

Illustration of Spinal Curvature  
for taking measurements.

NO.

2858. MEASUREMENTS REQUIRED FOR SPINAL APPARATUS:—

1. Distance from sacro-lumbar articulation to vertebra prominens (*C* to *D*), . . . . . inches.
2. Distance from sacro-lumbar articulation to first vertebra involved (*C* to *G*), . . . . . "
3. Distance from sacro-lumbar articulation to last vertebra involved (*C* to *D*), . . . . . "
4. Distance from crest of ilium to axilla, right side (*A* to *H*), "
5. " " " " " left " (*A* to *H*), "
6. Distance from the centre of one scapula to the centre of the other (*E* to *F*), . . . . . "
7. Horizontal (transverse) diameter of the protuberance, . . . . . "
8. Circumference of chest under axilla (*H*), . . . . . "
9. " of pelvis one inch below the iliac crests, . . . . . "

In addition to the above measures, state if the convexity of the curve is to the *right* or *left* side. In the diagram of the skeleton it is to the *right*.

Place a thin and flexible strip of lead along the spine, moulding it exactly to the spine and all its sinuosities from the seventh cervical vertebra to the middle of the sacrum. With this pattern trace carefully the shape of the spine on a sheet of paper, marking the points opposite the upper and lower borders of the scapulae and the crest of ilium, also the affected parts of the spine. Send us this tracing.

The boldface numbers represent instruments illustrated.



## DEFORMITY APPARATUS—Continued.

NO.	PRICE.
<b>2859.</b> Brace for Posterior Curvature, . . . . .	<b>\$30 00</b>

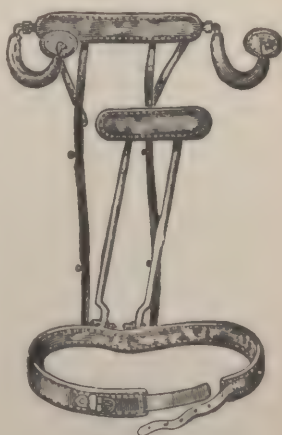
It is intended to afford an entirely elastic, continuous, and gentle pressure to the parts to which it is applied, giving to the patient, along with adequate support, an easy and comfortable feeling. It is made of light-tempered springs, and softly padded wherever it comes in contact with the body.

The belt below passes around the pelvis, and the principal weight is thrown upon the gluteal region. The front portion is broad, so as to compress the protruding abdomen. Two upright parallel bars pass on each side of the posterior elevation, having a portion of silk elastic rubber between them, which gives a constant pressure upon the protuberance. If the latter is inflamed, a portion cut out of the elastic material prevents direct pressure upon the extremity of the bone. Upon these side bars are attached two elliptic and padded springs, yielding to every pressure, and adapting themselves to the sides of the spinal column and keeping the body in an erect position. These are removed or applied by a very simple process. The two padded crutches are elastic and elevate the body by pressing mostly under the margin of the scapula, thus obviating any tendency to pressure upon the axillary veins. They are constructed in such a manner that the equilibrium of the body can be restored in case one shoulder is depressed. For measurements see No. 2858.

<b>2860.</b> Stillman's Antero-Posterior Brace, . . . . .	<b>\$30 00</b>
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This brace is composed of a light double pair of springs. The under springs are somewhat shorter and are provided with a pad at their extremities for pressure on the dorsal region when the brace is applied. By means of ratchets the power of the springs is regulated. To make the brace effective the curves of the under springs are made the reverse of the curves of the deformity. Thus the curve of the deformity and the curve of the combating springs are so placed in contact with each other, that when the brace is applied and the springs are drawn tightly toward each other reduction in the exaggerated curves of the spine results.

Directions required, see No. 2858.

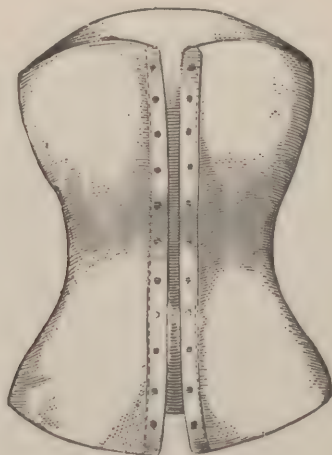


**No. 2860.**

DEFORMITY APPARATUS—Continued.



No. 2861.



No. 2862.

NO.	PRICE.
2861. Leather and Porous Russia Felt Jacket, . . . . .	\$25 00 to \$35 00

*Felt Jackets* are applicable to either lateral, posterior, or anterior curvatures. Any portion of the jacket can be made quite soft, so as not to press on projecting parts of the spine, hips, or breasts. The advantages are lightness, ease, rigidity, facility of removal for ablution, exercise, etc., economy—the same jacket being capable of remoulding as the case progresses.

We need a mould made as follows: A plaster of Paris jacket is applied, and as soon as this hardens, it is split down in the median line in front, removed from the body, and the cut edges placed and held in apposition by a bandage carried around and over the entire jacket. This shell is greased on its inner surface, placed upon the floor, and filled with stiff plaster mortar. When this hardens the shell is removed, leaving an exact cast of the thorax, upon which the jacket is to be built.

2862. Sayre's Plaster of Paris Jacket for Lateral Curvature, with leather facing and patent lacing hooks, . . . . .	\$20 00
For putting on leather facing and lacing hooks, . . . . .	3 50
“ “ “ “ “ “ “ “ with chamois lining, . . . . .	6 00

The advantages offered by this improvement permit of the easy removal of the jacket, besides an amount of adjustment not possible with a solid one. It may easily be removed at night or for bathing purposes, while its merits when compared with a plain one remain unimpaired.

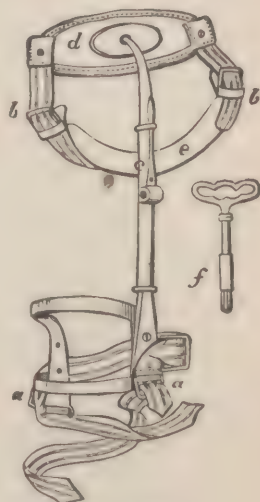
## DEFORMITY APPARATUS—Continued.

NO. 2863. Sayre's Improved Short Splint, without shoe, . . . . . \$20 00 PRICE.

This instrument consists of a pelvic band (*a*), passing partly around the body under the crest of the ilium, well padded on its inner surface, to which usually two perineal straps (*b b*) are fastened for counter extension; the outer surface of the pelvic band holds a ball and socket joint terminating in a tubular steel rod.

## MEASUREMENTS REQUIRED.

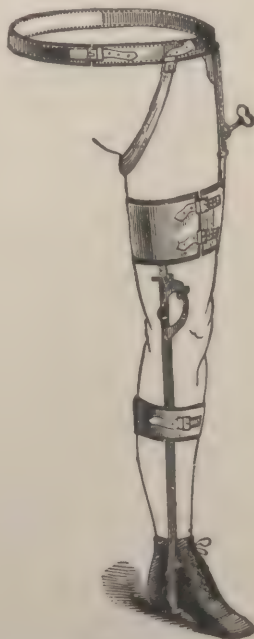
1. Sex of patient.
2. Circumference of body, between crest of ilium and trochanter major.
3. Distance from same point to the centre of knee joint.
4. Circumference of thigh, two inches above knee joint.
5. Circumference of middle of thigh.
6. Mention if right or left hip.



No. 2863.



No. 2864.



No. 2865.

The boldface numbers represent instruments illustrated.

**DEFORMITY APPARATUS—Continued.**

NO.		PRICE.
<b>2864.</b>	Sayre's Improved Long Splint for Hip-joint Disease, without shoe,	\$30 00

The improvements over Sayre's original long splint consist in attaching the long rod to a round revolving plate, which is fastened to the pelvic band; when this plate is moved upon its axis, the long rod moves forward and backward. At the top of this plate another joint permits the rod to move from and toward the other leg. A screw turns in and out of the revolving plate, so that when the key is applied and the screw turned, abduction is made. The long rod is divided into two parts; the lower holds an endless screw transversely, which is worked by a key, and rotation thus produced.

As a matter of comfort to patients, these long splints are also used with joints at the knee, in slight cases of disease, or when convalescence has definitely set in. These joints are sometimes made with coiled springs at the knee, by which, when the leg is bent backward and the power relaxed, it will spring forward involuntarily.

For measurements see No. 2865.

<b>2865.</b>	Hutchison's Hip-joint Splint, without shoe, . . . . .	<b>\$30 00</b>
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This apparatus is portable, and, being fastened to a shoe, needs no adhesive strips. Two rods of steel extend from the foot to the upper third of the thigh, and are secured to the leg with calf and thigh-bands. The outside rod, longer than the other one, is ratched, and slides in a steel tube, which is hinged by a ball and socket joint to a pelvic band. To this pelvic band is attached a perineal strap for counter-extension. Extension is made by working the splint with a key. The splint is provided with joints for the ankle and knee. The latter one is adjustable to any degree of flexion and extension, and may be fixed at any point or its motion limited, by an arrangement of a screw and two nuts.

**MEASUREMENTS REQUIRED.**

1. Length from sole of foot to ankle-joint, . . . . . inches.
2.   "       "       "       "       "       "       knee-joint, . . . . . "
3.   "       "       "       "       "       "       trochanter major, . . . . . "
4.   "       "       "       "       "       "       iliac crests, . . . . . "
5. Circumference of pelvis, . . . . . "
6.       "       "       thigh, . . . . . "
7.       "       "       leg, . . . . . "
8. Right or left leg.

<b>2866.</b>	Apparatus for Partial Paralysis of the Leg or Thigh—for one leg, full length, . . . . .	<b>\$25 00</b>
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<b>2867.</b>	Apparatus for Partial Paralysis of the Leg or Thigh—for both legs, full length, . . . . .	<b>40 00</b>
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Shoes extra.

The boldface numbers represent instruments illustrated.



## DEFORMITY APPARATUS—Continued.

This brace is applicable in cases of wasting palsy, or when certain groups of muscles become atrophied, losing the power to perform their functions. The muscles are excited to action, and are aided by artificial substitutes made of elastic rubber or steel, placed on the instrument so as to gently exercise the affected parts.

## MEASUREMENTS REQUIRED.

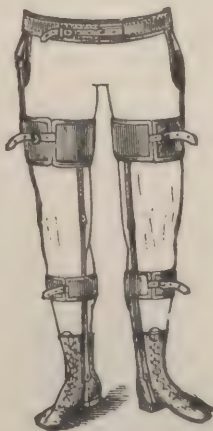
See No. 2868. Send good-fitting laced shoes.

NO.								PRICE.
<b>2868.</b>	Apparatus for the Support of Weak Legs—for child, two legs, . .							\$30 00
2869.	.. .. .. .. — adult, .. ..							40 00
2870.	.. .. .. .. — child, one leg, . .							20 00
2871.	.. .. .. .. — adult, .. ..							25 00

Without shoes.



No. 2866.



No. 2868.



No. 2872.

These apparatus are for the support of weak legs, when, by reason of relaxed joints, softening of the osseous structure, or partial paralysis, they cannot quite bear the weight of the body, but where the muscles still retain some power to perform their respective functions. Very light steel bars are secured to the shoes and carried up the sides of the legs to the pelvis; they are provided with joints corresponding to the natural ones and secured to the calf, thigh, and pelvis by well-padded bands and buckles.

If the apparatus is for a young patient it should be necessarily made to lengthen between ankle and knee-joints to correspond with the requirements of a growing child.

The boldface numbers represent instruments illustrated.

DEFORMITY APPARATUS—Continued.

MEASUREMENTS REQUIRED.

1. Length from sole of foot to ankle-joint, . . . . . inches.
2. " " " " " " knee-joint, . . . . . "
3. " " " " " " hip-joint, . . . . . "
4. " " " " " " iliac crest, . . . . . "
5. Circumference of pelvis, one inch below iliac crest, . . . . . "
6. " of thigh, . . . . . "
7. " of calf, . . . . . "

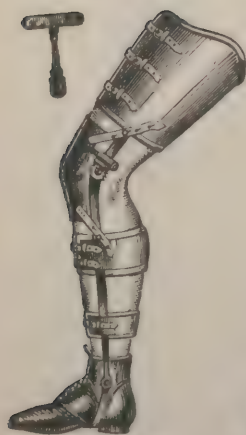
Send well-fitting laced shoes.

NO. **2872.** Sayre's Knee-joint Apparatus, . . . . . PRICE. \$15 00

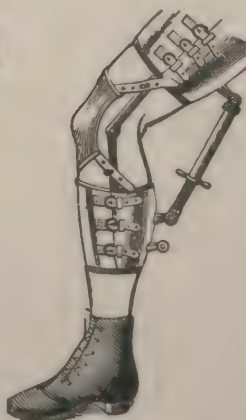
It consists of two bands or collars of sheet-steel, about an inch wide, embracing the limb—the one above the ankle, the other at the upper third of the thigh, admitting of adjustment by means of a hinge and slide that may be locked, at any given point, by turning the nut with the key fitted for this purpose. They are connected on either side by an extension rod, of the rack and pinion (or screw) construction.

MEASUREMENTS REQUIRED.

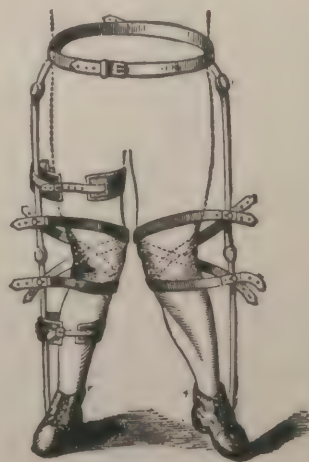
1. Circumference of thigh, . . . . . inches.
2. " of leg above ankle, . . . . . "
3. " of knee, . . . . . "
4. Length from above ankle to upper third of thigh, . . . . . "
5. " " ankle to knee, . . . . . "
6. " " knee to thigh, . . . . . "



No. 2873.



No. 2874.



No. 2876.

**2873.** Long Splint for Ankylosis of the Knee-joint, for overcoming muscular contractions, and for favoring the re-establishment of motion in case of false ankylosis, . . . . . \$30 00

The boldface numbers represent instruments illustrated.

## DEFORMITY APPARATUS—Continued.

It consists of metal troughs for the reception of the thigh and leg, united by two lateral shafts, provided with joints at the knee and ankle and attached to a shoe. A knee-cap, adjusted to buttons on the lateral shafts with strong elastic straps, exerts pressure on the patella, whilst the instrument may be flexed and extended by means of a key.

It is an admirable apparatus for the gradual extension of contracted muscles and for favoring the re-establishment of motion in cases of false ankylosis, and of remaining stiffness and dryness after treatment of joint disease. The mechanism is powerful, and may be moved swiftly, adapting it to the forcible breaking up of adhesions as well, should the surgeon prefer this to gradual extension.

## MEASUREMENTS REQUIRED.

1. Length from sole of foot to knee-joint, . . . . . inches.
2. " " knee-joint to upper third of thigh, . . . . . "
3. Circumference of upper third of thigh, . . . . . "
4. " above knee, . . . . . "
5. " of knee, . . . . . "
6. " " calf, . . . . . "
7. " above ankle, . . . . . "
8. Right or left leg, . . . . . "

Send a well-fitting shoe.

NO.		PRICE.
<b>2874.</b>	Stromeyer's Knee Extension Splint for Ankylosis of the Knee-joint, . . . . .	<b>\$20 00</b>
<b>2875.</b>	Stromeyer's Knee Extension Splint for Ankylosis of the Knee-joint; with ankle-joints, . . . . .	<b>25 00</b>

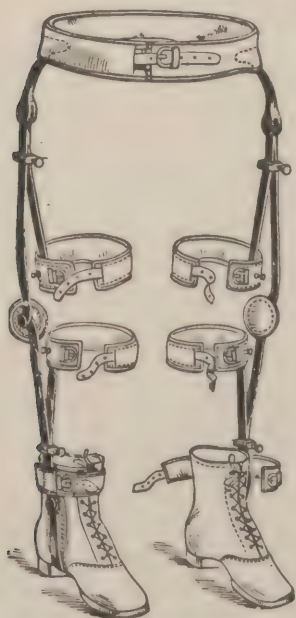
The illustration explains the action of the screw-movement on this apparatus. It is simple in its construction and less expensive than No. 2873. We also make this apparatus to extend to the sole of the foot, with ankle-joint, in order to give a better support. Measurements same as No. 2873.

<b>2876.</b>	Apparatus for Genu-Valgum (knock-knee); made to lengthen according to size, . . . . .	<b>\$30 00</b>
<b>2877.</b>	Apparatus for Genu-Valgum (knock-knee); for one leg, . . . . .	<b>15 00</b>

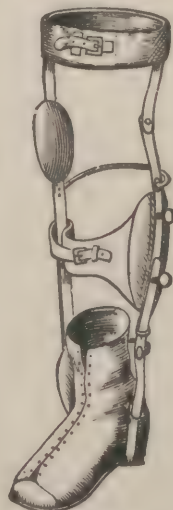
For the treatment of knock-knee this instrument is the simplest and most effectual one of which we know. It consists of two lateral stems, with ankle, knee, and hip-joints, extending from the heels of strong shoes to a pelvic band which encircles the body. Two padded straps are buttoned on each side of the steel stems, one above and one below the knee-joints, crossing each other behind. We also make, instead of the two straps, leather caps, placed on the inside of the knee-joints and buttoned to the steel stems on the outside. This instrument gives more power and answers better when provided with padded metal bands at the thigh and calf. Measurements required, see No. 2878.

The boldface numbers represent instruments illustrated.

## DEFORMITY APPARATUS—Continued.



No. 2878.



No. 2879.

NO.

PRICE.

2878. Truehart's Genu-Valgum (knock-knee) Apparatus, . . . per pair \$35 00

This improved brace, which is designed for the treatment of knock-knee and similar deformities of the legs, possesses decided advantage over the forms of brace in general use. The distinctive feature of this apparatus consists of four springs, which by means of adjustable slides, as shown in the illustration, are made to exert the exact amount of pressure requisite. These springs fit firmly to the leg and thereby secure a harmony of movement between the limb and the brace that cannot be attained by the ordinary brace. The brace exerts a corrective force that is constant in all positions, and admits of such a freedom of movement that no unnatural gait is acquired and no tendency to trip or fall is occasioned. A very young child wearing this brace can walk and run with ease.

### MEASUREMENTS REQUIRED.

1. Sex of patient.
2. Length from sole of foot to knee-joint, . . . . . inches.
3. " " " " " hip-joint, . . . . . "
4. Circumference of pelvis one inch below iliac crests, . . . . . "
5. " " thigh, . . . . . "
6. " " leg above knee, } A stick to be placed on the outside of the
7. " " " below " } limb and these two measurements taken
8. Right, left, or both legs, . . . . . , "

Send a pair of well-fitting shoes to lace.

The boldface numbers represent instruments illustrated.



## DEFORMITY APPARATUS—Continued.

NO.	PRICE.
2879. Gross' Genu-Varum (bow leg) Brace, . . . . .	per pair \$30 00

The immediate cause of bowed leg is softening of the osseous tissue, from defect of earthy matter. This may depend either upon rachitis or upon some other vice of the constitution, the precise nature of which cannot always be determined. The existing circumstances are two: contraction of the muscles pulling the affected bones out of shape, and the weight of the body compelling them to bend under the superimposed pressure. In rachitis the curvature is frequently attended with actual shortening; the latter defect, however, often exists without the former, the pieces in which it is most marked being perfectly straight.

The treatment must be early and decided. If it be postponed until the completion of the ossific process, it will be in vain to hope for relief. The general health, if at fault, must be amended by appropriate remedies; walking and standing must be interdicted, and the limbs must be supported by suitable apparatus, applied in such a manner as to make efficient counter-pressure opposite the seat of the excurvation. The more simple forms of the lateral variety will generally yield to a light, well-padded wooden splint, stretched along the inside of the leg and inserted by a tubular socket into the heel of a laced shoe. In the more severe grades of the affection nothing will be found to be more efficient than the apparatus delineated.

## MEASUREMENTS REQUIRED.

1. Patient's name or sex.
2. " age.
3. Length from sole of foot to ankle-joint, . . . . . inches.
4. " " " " " " knee-joint, inner side, . . . . . "
5. " " " " " " " " convex or outer side, "
6. " " " " " " " " upper third of thigh, inner side  
of leg, . . . . . "
7. Length from sole of foot to highest point of the arc, . . . . . "
8. Circumference of calf, . . . . . "
9. " " thigh, . . . . . "

Send a well-fitting shoe.

2880. Stillman's Brace for Bow-legs, . . . . .	per pair, without shoes, \$35 00
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As will be seen, this instrument is constructed upon a new principle, viz., that of combining constant spring-pressure with the support, so that a constant force will be brought to bear upon the bowed limbs at their greatest convexities, this force being regulated by ratchets placed at the junction of the springs and the main frame of the brace.

The brace is also provided with ratchets below the ankle-joint, so that the position of the foot may be regulated in its relation to the leg, since inversion or eversion of the foot very often accompanies the condition of bow-legs.

For measurements required, see No. 2879.

The boldface numbers represent instruments illustrated.

## DEFORMITY APPARATUS—Continued.

NO.

PRICE.

NO.	DESCRIPTION	PRICE
2881.	Bow-leg Brace with Thigh Band, . . . . . per pair,	\$25 00

The support is given by double stems of steel (secured to a shoe) carried up as high as the thigh—jointed at the ankle and knee to allow the patient perfect freedom of motion. They are kept in place by calf and thigh bands. The bow is corrected by pads being placed respectively against the ankle and knee on the concave side of the limb; an elastic strap passed around on the highest point of the arc, inside of the outer stem, tightly buttoned to the steel bar on the concave side, gradually compels the leg to become parallel with it.

For measurements required, see No. 2879.

**2882. Short Bow-leg Brace,** . . . . . without shoe, \$15 00

This apparatus will answer in many slight cases, or when the bow is greatest below the calf and the knee is not involved in the deformity.



### MEASUREMENTS REQUIRED.

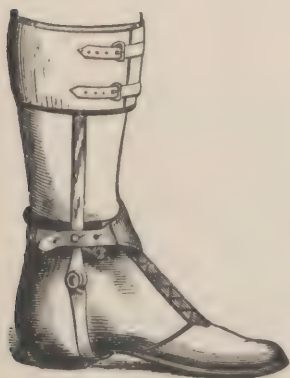
- |    |  |           |         |
|----|--|-----------|---------|
| 1. | Length from sole of foot to ankle-joint, | . . . . . | inches. |
| 2. | " " " " " " knee-joint,                  | . . . . . | "       |
| 3. | Circumference at ankle,                  | . . . . . | "       |
| 4. | " " " " " " calf,                        | . . . . . | "       |
| 5. | Right or left limb,                      | . . . . . | "       |

Measurements of 3 and 4 to be taken around the limb, and with a straight piece or rule placed on the concavity side of the limb.

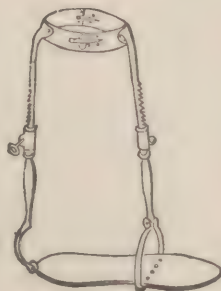
The boldface numbers represent instruments illustrated.

DEFORMITY APPARATUS—Continued.

APPARATUS FOR SUPPORT OF WEAK ANKLES.



No. 2883.



No. 2884.



Sayre's Ankle Brace applied.

NO.	PRICE.
2883. Ankle Brace, for one leg only, without shoe. . . . .	\$10 00

We attach to the sole of a laced shoe two lateral stems jointed at the ankle, passing as high as the centre of the calf, and here fastened to a well-padded steel collar that encircles the leg at that point. The ankle is supported and kept in its corrected posture by a T-shaped strap of strong calf-skin, stitched between the shoe upper and sole, and buttoned to the steel stem on the opposite side. By means of this T-shaped strap the amount of pressure necessary for the support of the ankle can be adjusted to the entire comfort of the patient. Such pressure, being constant and to some extent yielding, is more easily borne than that of a pad, which in time becomes hard, causing callousness of the skin where it is pressed upon by the pad.

MEASUREMENTS REQUIRED.

1. Send well-fitting shoes to lace.
2. State whether the ankle turns in or out.
3. Mention whether for right or left foot, or both feet.
4. Length from sole of foot to garter, below the knee, . . . inches.
5. Circumference at garter, . . . . . "

2884. Sayre's Apparatus for Chronic Inflammation of the Ankle-joint, . \$20 00

This instrument consists of a firm steel plate, made to fit the sole of the foot; at the heel is a hinge-joint, and attached to it a rod, slightly curved at the bottom and extending up the back of the leg to near the knee. Over the instep is an arch, like the top of a stirrup, with a hinge-joint at its summit, from which springs another rod which runs in front of the leg up to an equal height with the one behind. These rods are made with a ratchet and cog for extension, and connected at the top by a firm band of sheet steel, on one side of which is a hinge and on the other a lock.

The boldface numbers represent instruments illustrated.

**DEFORMITY APPARATUS—Continued.**

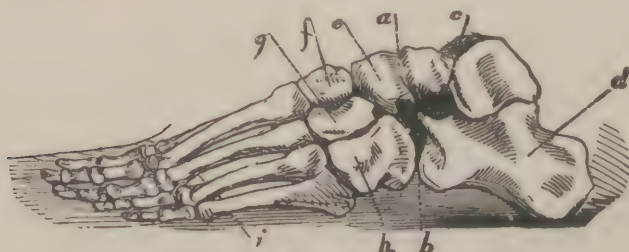
The instrument is applied with firm adhesive plaster, cut in strips about one inch in width, and long enough to reach from the ankle to near the tubercle of the tibia, and placed all around the limb.

The plaster is secured in its position, to within an inch of its upper extremity, by a well-adjusted roller.

The instrument is fixed and the foot firmly secured by a number of strips of adhesive plaster. A roller should be carefully applied over this plaster to prevent its slipping, and the ends of the plaster at top of the instrument turned over the collar, which has been previously locked, just tight enough to be comfortable, and secured by a turn or two of the bandage.

**MEASUREMENTS REQUIRED.**

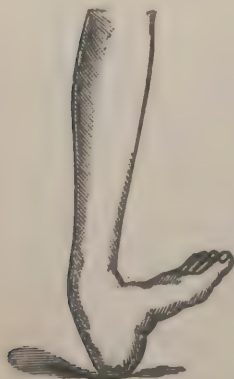
1. Trace the outlines of the sole on a piece of paper.
2. Length from sole to garter, . . . . . inches.
3. Circumference at " . . . . . "



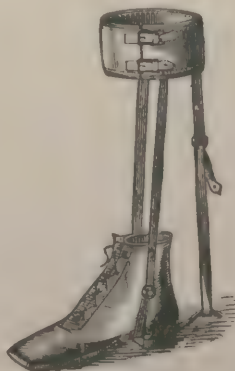
No. 2885.

**BONES OF THE FOOT.**

*a, b*, the medio-tarsal articulation; *c*, the astragalus; *d*, the os calcis; *e*, the scaphoid; *f*, middle cuneiform; *g*, external cuneiform; *h*, cuboid; *i*, the metatarsal bones.



Talipes Calcaneus.



No. 2886.



No. 2888.

The boldface numbers represent instruments illustrated.



## DEFORMITY APPARATUS—Continued.

NO.		PRICE.
2886.	Calcaneus Brace, single, without shoe, . . . . .	\$10 00
2887.	“ Braces, pair, “ shoes, . . . . .	15 00

This instrument consists of a pair of steel stems fastened to a shoe, provided with joints at the ankle and secured to the leg with a calf-band. A strong elastic cord, or webbing, is fastened posteriorly to the calf-band above, and to a spur-like piece of steel at the heel of the shoe below. By drawing this cord tight, the uplifted sole is faced downward, and the strain on the tendo-Achillis is diminished; at the same time the contracted muscles in front of the leg are extended.

## MEASUREMENTS REQUIRED.

1. Patient's age.
2. Right or left foot, or both feet.
3. Length from sole to little above calf, . . . . . inches.
4. Circumference of calf, . . . . . “

Send a well-fitting shoe or shoes to lace.

2888.	Hudson's Talipes Equinus Apparatus, single brace, without shoe,	\$10 00
2889.	“ “ “ “ pair braces, “ shoes,	15 00

Hudson's apparatus, like the preceding one, has on the inner and outer sides of the leg light or heavy (as the patient may require) steel bars, jointed at the ankle to a foot-piece which is securely riveted to the shoe sole. On top, these two steel bars are fastened to a well-padded collar encircling the leg in the region of the garter.

The improvement by Dr. Hudson consists in attaching the artificial muscles at the joints of the apparatus, in which position they work more effectively and are not so liable to catch anywhere or trip the patient. The muscles are constructed of strong elastic webbing; secured to their lower ends are pieces of catgut, which in turn are securely fastened to the lower ends of the semicircular grooved guides attached to the foot-piece: the catgut plays in the grooves of the semicircular guides.

Sewed to the upper ends of these elastic webbings are strips of perforated leather, which fasten on metal buttons placed for this purpose on each side of the garter band. The tension of the artificial muscles can be regulated by buttoning the perforated straps high or low, and by their aid the foot is retained in its normal position.

For measurements required, see No. 2886.

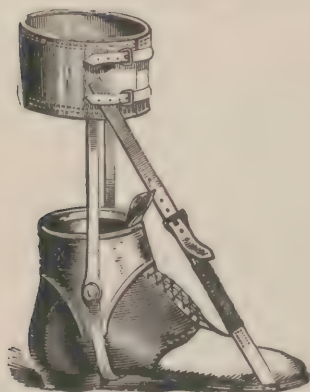
Send well-fitting shoes.

2890.	Talipes Equinus Brace, single, without shoe, . . . . .	\$10 00
2891.	“ “ “ pair, “ shoes, . . . . .	18 00

Simple contraction of the tendo-Achillis, and consequent dropping of the toes, is conveniently corrected by means of an artificial elastic muscle, one end of which is fastened to the sole of the shoe, the other to the calf-band: it may be regulated to any degree of tension by means of a buckle.

The boldface numbers represent instruments illustrated.

DEFORMITY APPARATUS—Continued.



No. 2890.



Talipes Equinus.

MEASUREMENTS REQUIRED.

1. Sex of patient.
2. Right, left, or both feet.
3. Length from sole of foot to ankle-joint, . . . . . inches.
4. " " " " " calf, . . . . . "
5. Circumference of calf, . . . . . "

Send well-fitting shoes. In some cases special shoes may be required, and at such times an extra charge will be made for same.



Talipes Valgus.



No. 2892.

NO.		PRICE.
2892.	Talipes Valgus Brace, single, without shoe, . . . . .	\$10 00
2893.	" " " pair, " shoes, . . . . .	18 00

Nyrop's apparatus is highly recommended. It consists of a stiff-soled lacing shoe, with a leg-collar and steel bar attached to the outer side of the shoe with a lateral hinge opposite the outer malleolus. To the inner side of the sole, near the heel, is attached a strong piece of elastic webbing, by which inversion of the foot is effected by buckling the strap to the collar near the knee.

For measurements required, see No. 2890.

Send well-fitting shoes.

The boldface numbers represent instruments illustrated.

## DEFORMITY APPARATUS—Continued.

NO.		PRICE.
2894.	Sayre's Talipes Shoe, . . . . .	\$15 00

" In January, of 1868, I improved my shoe by putting in the sole, opposite the medio-tarsal articulation, a *ball-and-socket*, or universal joint, instead of the hinge joint, which permitted only lateral movements. This sole and part embracing the heel consists of strong sheet-steel, covered with leather on both sides. Two lateral upright bars, *B*, jointed at the ankle, are fastened near the heel and to the collar-band: *G*, *H*, and *I* are points for the attachments of artificial muscles, made of rubber tubing, with hooks and chains at their ends. To the inside walls of the shoe, near *A*, two flaps of chamois-leather are attached to lace together, which, passing over the front of the ankle-joint, keep the heel firmly in the back part of the shoe. The accompanying figure shows the result of the last effort to make this shoe resemble an ordinary one as much as possible. In addition, the shoe has been made more comfortable and convenient by a slight heel, and by making the anterior part of the sole like that of an ordinary shoe, and not so clumsy as that of most club-foot shoes. The upper leather laces neatly over the foot, adapting itself more perfectly than if arranged with straps and buckles. The shoe is arranged for valgus or varus. There is really no essential difference; only observe the principle to apply the artificial muscles in such position as shall best supply the place of those paralyzed."—*"Orthopædic Surgery and Disease of the Joints," Lewis A. Sayre, M. D.*



No. 2894.



Talipes Varus.



No. 2895.

## MEASUREMENTS REQUIRED.

1. Trace the outlines of the affected foot on a piece of paper.
2. Length of foot, . . . . . inches.
3. " from sole to calf, . . . . . "
4. Circumference of calf, . . . . . "
5. " " instep, . . . . . "
6. " above ankle, . . . . . "
7. " of ball of foot, . . . . . "

The boldface numbers represent instruments illustrated.

DEFORMITY APPARATUS—Continued.

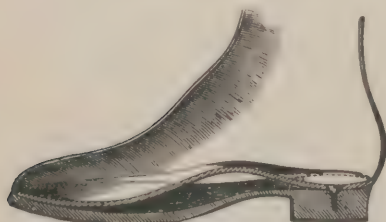
NO.	PRICE.
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2895. Wyeth's Talipes Shoe, . . . . . \$8 00

"It consists of a sole-piece of sheet-steel, which is riveted to a heel-piece of the same material, and is roomy enough to hold the heel of the patient without chafing. It should be nicely padded, to prevent the danger of excoriations. To this heel-piece is attached, by a hinge-joint with limited forward and backward motion, an iron bar which extends to the padded iron collar around the leg, near the knee. The foot of the patient is secured to the sole-piece by adhesive plaster, with the aid of the instep-strap, and a flannel roller (these are not shown in the cut) is carried over all. As the perpendicular bar is now carried parallel with the leg, and held in this position by buckling the collar around the leg, the foot is turned outward and held in its normal position. An ordinary lacing shoe should be worn over the brace."—"Text-Book on Surgery," Wyeth.

MEASUREMENTS REQUIRED.

1. Trace outline of affected foot on paper.
2. Length of foot, . . . . . inches.
3. " from sole to calf, . . . . . "
4. Circumference of calf, . . . . . "



No. 2896.



No. 2897.

2896. Spring for Flat Foot, without shoe, for one sole \$1 50, for a pair \$2 50

For flat feet we make a plain steel sole, well tempered, and shaped to approach an ideal arch of a foot. These soles are covered with leather and fastened inside of a common shoe with a single screw. They are so thin as to yield a little, but strong enough to keep the bones arched. In ordering the steel sole for flat feet state if they are wanted for right, left, or both feet, and send the shoes or outlines of the soles of the shoes traced on paper.

2897. Apparatus for Over-riding Toes, . . . . . for one foot \$8 00

The apparatus for over-riding, or "hammer-toes," consists of a steel sole, arranged with slits corresponding to the spaces between the toes. A strap of webbing is passed through these slits and over the contracted toe (or over each and all, as the case may require), and buckled or tied under the sole, tense enough to straighten the toe. This apparatus is kept in place by a thin silk, linen, or cotton covering, laced to the instep, and may be worn in an ordinary shoe.

MEASUREMENTS REQUIRED.

1. Place the foot on paper, and trace with pencil.
2. Circumference of ball of foot, . . . . . inches.
3. " " instep, . . . . . "

The boldface numbers represent instruments illustrated.



## DEFORMITY APPARATUS—Continued.

NO.

PRICE.

2898. Apparatus for Abnormal Eversion and Inversion—Sayre's Rotator, \$30 00

"It frequently happens, in bad cases of varus and varo-equinus, that after we have restored the foot to its normal shape, either by constant use of elastic tension or by tenotomy of the tendo-Achilles and plantar fascia combined with elastic tension, as the case may be, that the foot, although perfect in shape, cannot be held in the proper position, but will remain inverted on account of the paralysis of the rotator muscles of the thigh; and to correct this deformity it becomes necessary to *evert* or *rotate outward* the *entire limb*." (See page 663, "Sayre on the Anatomy of the Ankle-Joint.")

"To accomplish this object I had constructed a shoe with the additional attachment of a rotating screw, which fulfills the indication completely. It is the application of the same principle which I have for so long a time used in the outward rotation of the femur in the third stage of hip-disease. In applying this force for the outward rotation of the foot, in cases of club-feet, a light metallic rod or shaft is secured to the bottom of the shoe, in front of the heel, passed up on the outer side of the limb, and connected with a well-padded pelvis belt, having joints, of course, opposite the ankle, knee, and hip. Just below the joint, opposite the hip, the shaft is divided into two sections, and at this point is an endless screw, placed transversely to the shaft. The screw is worked by a key, and is capable of producing rotation through two-thirds of the arc of a circle. There is a well-padded belt just above the ankle and another belt above the knee."—"Orthopædic Surgery and Diseases of the Joints," Lewis A. Sayre, M. D.



No. 2898.

## MEASUREMENTS REQUIRED.

1. Send a well-fitting strong lace shoe.
2. Circumference of body between crest of ileum and trochanter major, . . . . . inches.
3. Circumference of middle of thigh, . . . . . "
4. " at garter below knee, . . . . . "
5. Length from sole to ankle-joint, . . . . . "
6. " " " knee-joint, . . . . . "
7. " " " hip-joint, . . . . . "
8. Right or left limb.

The boldface numbers represent instruments illustrated.

DEFORMITY APPARATUS—Continued.



No. 2899.

NO. 2899. Apparatus for Inverted Feet, per pair \$10 00

PRICE.

This apparatus answers well for in-door exercise, but patients cannot get up or down stairs nor walk on uneven ground without being in constant danger of falling.

Give circumference of calf.

Send shoes.



No. 2900.



No. 2901.

2900. Steel Extension for Short Leg, . . . . . \$8 00

For a short leg, the result of infantile paralysis, when the bones have not kept pace in growth with those of the corresponding extremity, we make an extension to correct the patient's limp and to guard against the danger of spinal curvature. The apparatus consists of a steel frame of proper height, securely fastened under a plain shoe. The steel base has a leather sole attached, to prevent falling on slippery ground, etc.

2901. Cork Extension for Short Leg, . . . . . \$8 00 to \$12 00

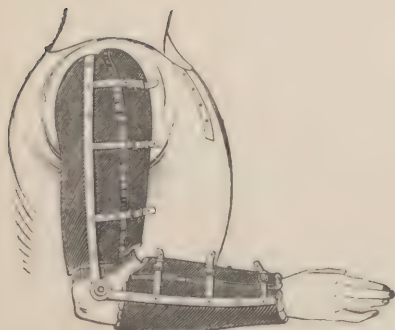
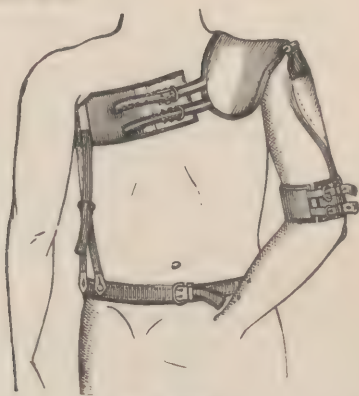
MEASUREMENTS REQUIRED.

1. Have the patient (both feet bare) stand up, place books or blocks of wood under the short foot until the shoulders and pelvis are in a horizontal plane, then measure these books or blocks, which will be the height required for extension.
2. Send us a well-fitting shoe.
3. Right or left limb.

If a cork shoe is wanted, send, in addition, measurement of foot as per directions No. 2897.

The boldface numbers represent instruments illustrated.

## ARTIFICIAL LIMBS.

NO. **No. 2905.****No. 2906.**

PRICE.

**2905.** Smith's Artificial Arm, for ununited fracture of the humerus, . \$50 00

It is fitted closely over the shoulder and fore-arm and accurately jointed at the elbow, giving to the parts perfect freedom of movement.

## MEASUREMENTS REQUIRED.

1. Right or left side.
2. Length from acromion to point of external condyle, . . inches.
3. " " condyle to styloid of radius, . . . . . "
4. " " internal condyle to styloid of ulna, . . . . . "
5. Circumference from point of shoulder to opposite axilla, . . . . . "
6. " around top of shoulder over deltoid, . . . . . "
7. " middle of arm, . . . . . "
8. " at elbow-joint, . . . . . "
9. " upper end of fore-arm, . . . . . "
10. " middle " " . . . . . "
11. " wrist, . . . . . "

Be careful to take circumference at wrist whilst the radius and ulna are parallel, or between pronation and supination.

**2906.** Artificial Humerus, . . . . . \$50 00

The flail-like movement of the upper extremities after resection of bones and exsection of joints frequently renders them entirely useless without apparatus, but with this, suitably constructed and adjusted, these limbs become very serviceable. This is accomplished by substituting an external lever, upon which the muscles can act, for the injured bone. A brass cap, well padded, is accurately fitted to the shoulder and kept in place by axillary straps and suspenders. To this cap we attach, by means of a sort of universal joint, a concave steel bar, covered with leather, fitting the arm and buckled thereto just above the elbow-joint and as high up as may be necessary. With the aid of this apparatus a person can use his arm in many directions. In order to make this apparatus fit well the patient must either visit us for adjustment, or, if this is inconvenient, the surgical attendant must send us an accurate plaster-of-paris cast of the shoulder and the following information :—

The boldface numbers represent instruments illustrated.

## ARTIFICIAL LIMBS—Continued.

### MEASUREMENTS REQUIRED.

1. Patient's sex.
2. Right or left side.
3. Length of arm from axilla to forearm when flexed, . . . inches.
4. " from shoulder to elbow, . . . . . "
5. Circumference of the arm above the elbow, . . . . . "
6. " " chest under axillæ, . . . . . "

## DIRECTIONS FOR MEASUREMENTS FOR ARTIFICIAL ARM.

- [illegible]



2907.

The boldface numbers represent instruments illustrated.



## ARTIFICIAL LIMBS—Continued.

NO.

PRICE

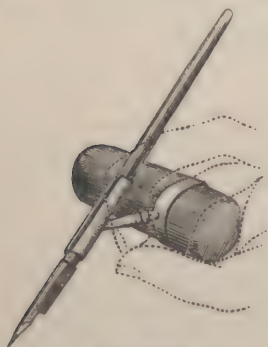
- 2907.** Artificial Arm, amputation between elbow and wrist, according to finger movement and finish, . . . . . \$50.00 to \$75.00

This shows an artificial arm for amputation between the elbow-joint and the wrist. The artificial arms we make in the same manner as the legs, namely, with a soft leather socket in which the stump fits. The socket is strengthened by steel rods, which are hinged at the elbow for the motions of that joint. The artificial hand is made of willow wood and its life-like finish gives it the appearance of the natural hand. We make these hands with movable fingers, or with stiff fingers and movable thumbs. A person may with such a hand hold a pen or a fork, etc.

For laborers and farmers we make these hands to be screwed off, and substituted by a steel hook fastened by a screw. With this a bucket of water, a shovel, or reins of a horse can be held. This change can be made with great facility.

For an amputation above the elbow, when the stump is not too short, we make the same arrangement, yet with such an arm less work can be done, and it serves as compensation for the lost arm only in so far as it covers the mutilation. This is, however, not absolutely applicable to every case.

- 2908.** Artificial Arm, for amputation above the elbow, . . \$60 00 to \$75 00  
**2909.** Writer's Cramp Apparatus, . . . . . 6 00

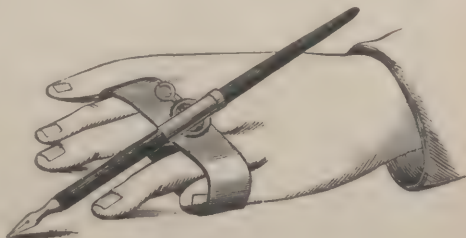


No. 2909.

There are many devices for the relief of this malady. The above is one of the simplest and most effective. It consists of an oblong ball, made of wood or hard rubber, to be grasped by the hand, keeping it in a proper position, and serving as rests for the index and middle fingers. A penholder passes through the neck of the ball at a convenient place near the extremity, which can be adjusted and made firm by a thumb-screw. Thus a person affected with writer's cramp may be effectually treated without being necessitated to leave off writing.

- 2910.** Writer's Cramp Apparatus, . . . . . \$6 00

Prof. v. Nussbaum, of Munich, deems *writer's cramp* to be caused by the pathologically changed antagonism of the muscles, in which there is always present spastic contraction of the flexors and adductors along with debility of the extensors and abductors. He constructed a pen-



No. 2910.

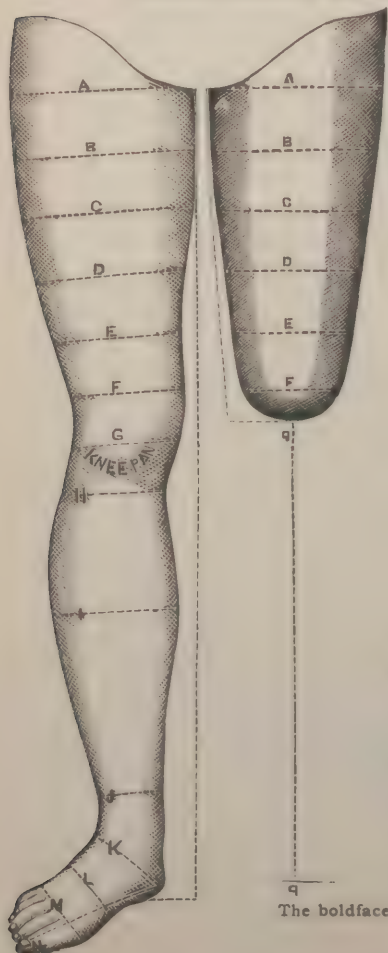
holder which is to be conducted by means of the extensors and abductors.

The boldface numbers represent instruments illustrated.

ARTIFICIAL LIMBS—Continued.

instead of the flexors and adductors. In this manner cramp is not only avoided, but the very act of writing becomes the remedy for the removal of the evil. The bracelet consists of an obliquely oval ring, to which a penholder is fastened in such a position that the pen will easily touch the writing paper when the hand is rested upon the desk. The thumb and first three fingers are put into the ring, the thumb but little, the third finger to near the metacarpal bone—the fourth finger is left out. By extending and spreading the fingers inside of the ring it is held fast, but drops off as soon as the fingers are flexed. By means of these bracelets the proper gymnastic exercises are performed to overcome the debility and to restore the antagonism of the muscles. The apparatus not only enables the patient to do his usual writing, but, according to v. Nussbaum, the more he writes the sooner will a cure of his case be brought about. The rings are made of hard rubber and are of different sizes.

DIRECTIONS FOR MEASUREMENTS FOR ARTIFICIAL LEG.



Measurements of sound leg to be filled out with every order, whether the amputation be above or below the knee.

Distance from body to floor, . . . A to O

“ “ knee-pan, . . . . . A to G

Circumference around leg close to body at A

“ “ “ 2 in. below A, at B

“ “ “ 4 “ “ A, at C

“ “ “ 6 “ “ A, at D

“ “ “ 8 “ “ A, at E

“ “ “ 10 “ “ A, at F

“ “ “ at knee-pan at G

“ “ “ just below

knee-pan at H

“ “ “ at calf, . . . at I

“ “ “ at smallest

part of ankle at J

“ “ heel, . . . . . at K

“ “ foot, . . . . . at L

“ “ toe joints, . . . . . at M

Length of foot, . . . . . at N

Lateral diameter through the leg from

side to side, . . . . . at G

Length from top of knee to floor, taken while sitting with sound leg bent at right angle, . . . . . W to W



The boldface numbers represent instruments illustrated.

**ARTIFICIAL LIMBS—Continued.**

MEASUREMENTS TO BE FILLED OUT WHERE THE AMPUTATION HAS BEEN  
MADE ABOVE THE KNEE.

Circumference around stump close to body, . . . . . at A  
 " " " 2 in. below, . . . . . A  
 " " " 4 " " . . . . . A  
 " " " 6 " " . . . . . A  
 " " " 8 " " . . . . . A  
 " " " 10 " " . . . . . A

Length from end of stump to floor, . . . . . O to O  
 Which leg amputated.

When ordering an artificial leg, always send a boot or shoe (the lighter the better) that the foot may be made to correspond to the natural one.

Take all measures twice, in order to make no mistakes, and write all figures with pen and ink.

MEASUREMENTS TO BE FILLED OUT WHERE THE AMPUTATION HAS BEEN  
MADE BELOW THE KNEE.

Circumference around stump close to body, . . . . . at A  
 " " " 2 inches below A, . . . . . at B  
 " " " 4 " " A, . . . . . at C  
 " " " 6 " " A, . . . . . at D  
 " " " 8 " " A, . . . . . at E  
 " " " 10 " " A, . . . . . at F  
 " " " at smallest place above knee.  
 " " " at knee, . . . . . at G  
 " " " at lower edge of knee-pan at O  
 " " " 2 inches below O, . . . . . at H  
 " " " 4 " " O, . . . . . at I  
 " " " 6 " " O, . . . . . at J  
 " " " 8 " " O, . . . . . at K  
 " " " 10 " " O, . . . . . at L  
 " " " 12 " " O, . . . . . at M

Lateral diameter through the leg from side to side, . at G

Distance from end of stump to floor.

Distance from lower edge of knee-pan, O, to floor.

Name.

P. O. Address. County. State.

Occupation.

Size of shoe worn.

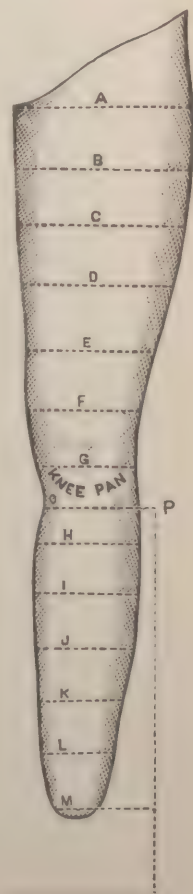
Which leg amputated.

Date of amputation. Cause.

Weight. Height. Age.

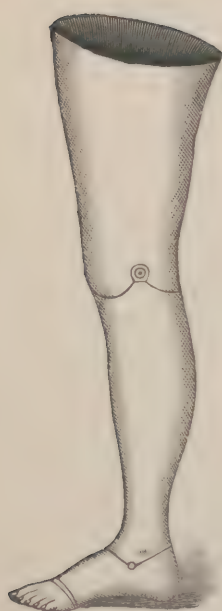
Has patient ever worn an artificial limb?

How long. Whose make.

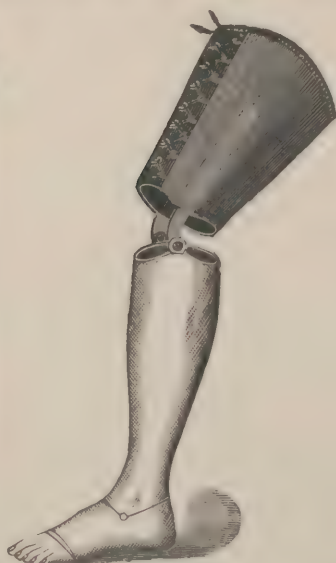


The boldface numbers represent instruments illustrated.

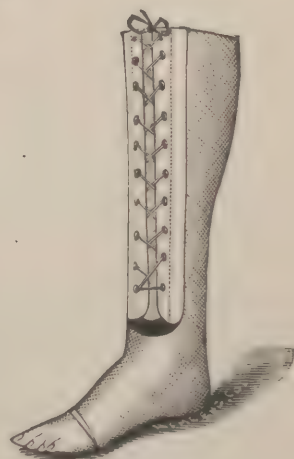
ARTIFICIAL LIMBS—Continued.



No. 2915.



No. 2916.



No. 2917.

NO.

PRICE.

**2915.** Artificial Leg, for an amputation above the knee, . . \$75 00 to \$100 00

This shows an exterior view of our "Improved Artificial Leg" when made for an amputation at the thigh. As will be seen by the cut, the leg is graceful in form and the joints fit closely together, so that the clothing is not in danger of being drawn into it and cut, when bending the knee, as is often the case with poorly constructed ones. The upper portion of the thigh-socket is shaped and fitted to the stump so accurately that we obtain a bearing upon all sides alike, thus distributing the weight of the body over so large a surface that it produces no pain or discomfort to the wearer. We employ the same principle in supporting the weight of the body as would be used by one who would with both hands firmly grasp the limb of a friend below the calf and attempt to raise him from the floor. And as this could be accomplished, with the requisite amount of strength, without causing the person being lifted the least amount of pain, so we can support the weight of the body with our thigh-socket without having any of it come upon the end of the stump.

In cases where the end of the stump is very tender, we enlarge the inner diameter of the leg so that it does not even touch the tender portion, or if it is firm enough to carry a portion of the weight, we divide it proportionately between the end and sides of the stump, in every case adopting that plan which is best adapted to the ease and comfort of the wearer.

The boldface numbers represent instruments illustrated.



**ARTIFICIAL LIMBS—Continued.**

The upper rim of our thigh-socket is made quite thin, so that we avoid producing the unsightly looking ridge at this point that is so commonly seen on those wearing the ordinary legs, and in order to prevent this thin rim from splitting we bind it firmly with an extra thickness of heavy raw-hide.

Our legs are all made from thoroughly seasoned English willow, as this has been found to possess great strength, combined with lightness and durability.

NO.	PRICE.
<b>2916.</b> Artificial Leg, for an amputation below the knee, . . . . .	\$75 00

This shows our "Improved Artificial Leg" for a case where the amputation has been made below the knee. The lower part of this leg is made and fitted in the same manner as our full-length leg described above, and differs only in the thigh-piece and knee-joint. The thigh-piece of this leg consists of a leather socket or lacer that is fitted tightly to the limb, so as to carry a portion of the weight of the body and thus partially relieve the stump and knee-joint. This leather lacer we now make with a new fastener, consisting of a stout cord passing over a series of hooks, by which means the leg may be put on in the dark and laced up in one-fourth the time required to adjust one of the old-style ones where eyelets are used. This may often prove to be of great advantage.

<b>2917.</b> Artificial Leg, for ankle amputation, . . . . .	\$50 00
--	---------

This represents a leg to be worn after an amputation at the ankle-joint, known as the Symes operation. It is fitted so as to lace up around the limb, to the knee, protecting the stump, and making a good and serviceable appliance.

**VIAL CASES.**

When ordering please specify the numbers on this list. Extra vials at moderate prices.

The physician will find in all of our cases a pocket for papers, etc.

<b>3040.</b> Contains 16 2-drachm vials, dark morocco, with strap, . . . . .	\$1 20
<b>3041.</b> " 18 2 " " " " " sewed, . . . . .	1 00
<b>3042.</b> " 20 2 " " " " " with strap, . . . . .	1 30
<b>3043.</b> " 4 2 1/2 " " " " " for the vest pocket, . . . . .	50
<b>3044.</b> " 9 2 1/2 " " " " " dark morocco, . . . . .	1 00
<b>3045.</b> " 18 2 1/2 " " " " " . . . . .	1 35
<b>3046.</b> " 20 2 " " " " " calfskin, sewed, . . . . .	1 25
<b>3047.</b> " 20 2 " " " " " morocco, " . . . . .	1 20
<b>3048.</b> " 20 4 " " " " " gilt, with strap, . . . . .	2 00
<b>3049.</b> " 24 2 " " " " " gilt numbers on loops of vials, . . . . .	2 00
<b>3050.</b> " 12 2 1/2 " " " " " and 8 6-drachm, best black morocco, . . . . .	2 75
<b>3051.</b> " 20 2 " " " " " wrapper case, . . . . .	1 50
<b>3052.</b> " 12 2 " " " " " and 8 4-drachm, wrapper case, . . . . .	1 75

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## VIAL CASES—Continued.



No. 3047.



No. 3049.



No. 3050.



No. 3053.

NO.						PRICE.
<b>3053.</b>	Contains	8	3-drachm	vials on one side and two pockets for		
				powders on the other side, best Russia leather,		\$2 50
<b>3054.</b>	Contains	16	3-drachm	vials, best Russia leather,		2 75
<b>3055.</b>	"	6	3	" " best red or black morocco,		1 00
<b>3056.</b>	"	20	2	" " " " sewed,		1 35
<b>3057.</b>	"	10	3	" " " " " "		1 35
<b>3058.</b>	"	12	3	" " with stiff ends,		1 35
<b>3059.</b>	"	10	3	" " and 14 1½, best red or black morocco,		2 00
<b>3060.</b>	"	18	3	" " " 14 1½, " " "		1 90
<b>3061.</b>	Contains	24	3-drachm	vials and 16 1½-drachm, 3 folds, 2 pockets,		
				best red or black morocco,		2 50
<b>3062.</b>	Contains	24	3-drachm	vials, 2 pockets, and place for powders,		2 00

The boldface numbers represent instruments illustrated.

VIAL CASES—Continued.

NO.		PRICE.
3063.	Contains 10 4-drachm vials and 18 1/2-drachm, the vials all up-right when carried in pocket, . . . . .	\$2 25
3064.	Contains 10 4-drachm vials and 28 2-drachm, 3 folds, best red or black morocco, . . . . .	3 25
3065.	Contains 10 4-drachm vials, 14 2-drachm, and 28 1-drachm, 3 folds, best red or black morocco, . . . . .	3 50
3066.	Contains 8 2-drachm vials, dark morocco, . . . . .	90



No. 3067.

3067.	Contains 10 4-drachm vials and 14 2-drachm, best red or black morocco, . . . . .	2 35
3068.	Contains 10 2-drachm vials, dark morocco, . . . . .	1 15
3069.	“ 6 1 “ “ for the vest pocket, . . . . .	50
3070.	“ 8 4 “ “ glass-stoppered, 12 2-drachm corked, . . . . .	2 50
3071.	“ 24 2 “ “ wrapper case, best red or black morocco, . . . . .	2 25
3072.	Contains 10 3-drachm vials and 14 1 1/2-drachm vials, wrapper case, best red or black morocco, . . . . .	2 50
3073.	Contains 30 2-drachm vials, corked, best red or black morocco, . . . . .	2 75



No. 3074.

NOTE.—This is intended especially for Homœopaths.

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## VIAL CASES—Continued.

NO.		PRICE.
3074.	Contains 15 2-drachm vials and 30 1-drachm, corked, best red or black morocco, . . . . .	\$3 00
3075.	Contains 12 2-drachm vials, glass-stoppered, well ground, best red or black morocco, . . . . .	2 25
3076.	Contains 12 2-drachm vials, glass-stoppered, and 10 3-drachm, corked, metal ends, best red or black morocco, . . . . .	3 00
3077.	Contains 10 3-drachm vials, glass-stoppered, 12 2½-drachm, and 15 2-drachm, corked, 2 pockets, metal ends, dark morocco, . . . . .	3 35
3078.	Contains 10 3-drachm vials, glass-stoppered, and 15 2-drachm, corked, stiff ends, dark morocco, . . . . .	2 50
3079.	Contains 8 4-drachm vials, glass-stoppered, on one side, and pocket on other, dark morocco, . . . . .	2 00

NOTE.—The following cases are flexible. Many physicians prefer them because they do not bulge out the pocket as much as a case with stiff corners, and they conform their shape somewhat to the body. Somewhat more care is required not to break the bottles which they contain, as they naturally do not afford the protection to the bottles that a stiff case does. Beneath the bottles is a small shelf to prevent them from slipping out. The flaps are lined with best quality of silk.



No. 3080.

3080.	Contains 10 2-drachm vials, soft, flexible case, black, no catch. . . . .	\$2 25
3081.	“ 24 2 “ “ “ “ “ “ “ flat “ . . . . .	2 75



No. 3082.

The boldface numbers represent instruments illustrated.

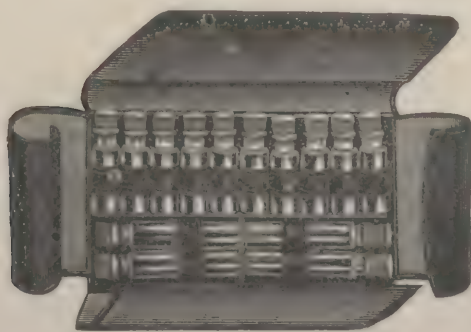


## VIAL CASES—Continued.

NO.									PRICE.
<b>3082.</b>	Contains	12	2-drachm	vials,	soft,	flexible	case,	black,	flat catch, . \$2 25
<b>3083.</b>	"	15	2	"	"	"	"	"	with tuck, . 2 25
<b>3084.</b>	"	20	2	"	"	"	"	"	flat catch, . 2 25

**No. 3085.**

<b>3085.</b>	Contains	8	4-drachm	vials,	soft,	flexible	case,	black,	no catch, . 1 50
<b>3086.</b>	"	12	3	"	"	"	"	"	" " " " " " " " " " 1 75

**No. 3087.**

<b>3087.</b>	Contains	16	2-drachm	vials	and	4	3-drachm,	black,	no catch, . 1 75
<b>3088.</b>	"	12	4	"	"	"	black morocco,	flat	" " 2 00

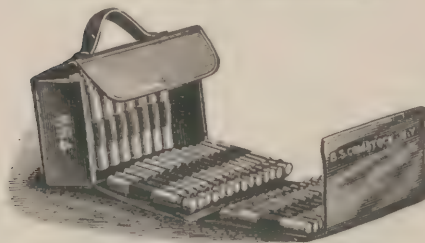
NOTE.—Cases especially intended for triturated tablets are made by us. The vials are usually blown without necks, so that the tablets may slip in or out easily.

<b>3089.</b>	Contains	30	1-drachm	vials,	corked,	flat	catch, . . . . . 3 00
<b>3090.</b>	"	15	2	"	"	and	30 1-drachm, corked, flat catch, 3 00
<b>3091.</b>	"	60	1	"	corked	vials,	flat catch, . . . . . 3 25
<b>3092.</b>	"	30	1	"	"	"	flexible case, . . . . . 2 50

The boldface numbers represent instruments illustrated.

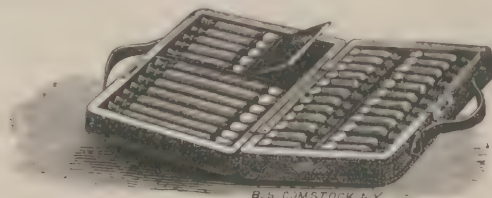
# C. H. GOLDTHWAITE & CO.,

## VIAL CASES—Continued.



**No. 3093.**

- | NO.  | PRICE. |
|--|--------|
| 3093. Contains 10 4-drachm and 28 2½-drachm corked vials; best red or black morocco, . . . . . | \$4 00 |



**No. 3094.**

- |  |      |
|--|------|
| 3094. Contains 24 2½-drachm, 7 6-drachm, and 5 3-drachm wide-mouthed corked vials, also a box for hypodermic syringe; best black seal leather, . . . . . | 8 50 |
|--|------|



**No. 3095.**



**No. 3096.**

- |   |      |
|---|------|
| 3095. Hand Case, contains 24 4-drachm corked vials and pocket; best black morocco, with handle, . . . . .   | 4 00 |
| 3096. Hand Case, contains 24 4-drachm and 32 2½-drachm corked vials, a pocket for sundries, and a graduated minim measure. <i>The addition of a minim measure to this case will, we think, be a convenience to the physician, who can thus secure perfect accuracy of dose, . . . . .</i> | 5 75 |

The boldface numbers represent instruments illustrated.

VIAL CASES—Continued.



**No. 3097.**



**No. 3098.**

PRICE.

- |              |  |        |
|--------------|--|--------|
| <b>3097.</b> | Hand Case, contains 8 1-ounce, 10 6-drachm, and 12 4-drachm corked vials, . . . . .  | \$4 75 |
| <b>3098.</b> | Contains 5 1½-ounce glass-stoppered, 7 6-drachm, and 9 4-drachm corked vials, . . . . .  | 5 50   |
| <b>3099.</b> | Buggy Case, dark morocco, contains 8 1-ounce, 12 4-drachm, 15 1½-drachm, and 15 1-drachm corked vials, with pocket and elastic loops for surgical instruments, . . . . . | 7 00   |

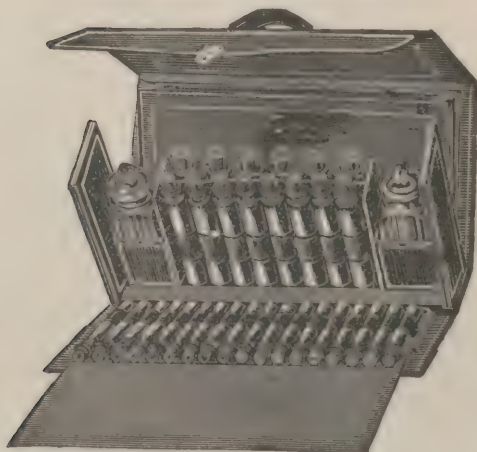


**No. 3100.**

- 3100.** Buggy Case, red or black morocco, very compact and well protected with nickel-plated edge trimmings. It contains 8 1½-ounce glass-stoppered, 10 1-ounce, 12 6-drachm, 8 4-drachm, and 10 2-drachm corked vials. The rows of vials are arranged to fall forward and show all the labels; large pockets, . . . . . 10 50

The boldface numbers represent instruments illustrated.

VIAL CASES—Continued.



No. 3101.

- | NO.          |  | PRICE.  |
|--------------|--|---------|
| <b>3101.</b> | Buggy Case, <i>genuine</i> sealskin, contains 2 2-ounce glass-stoppered, 6 1-ounce, 8 4-drachm, and 15 3-drachm corked vials, and loops for instruments, . . . . . | \$10 00 |



No. 3102.

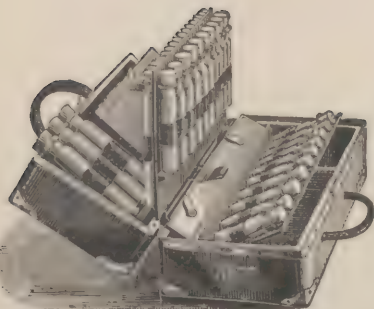
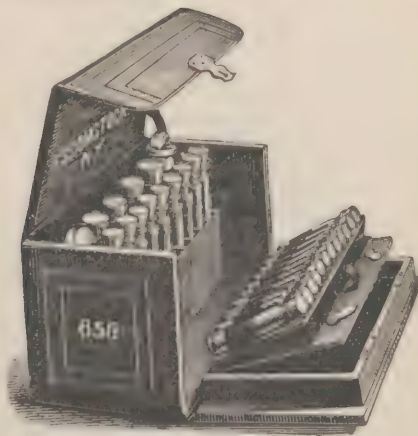
- |              |  |      |
|--------------|--|------|
| <b>3102.</b> | Buggy Case, dark morocco, contains 8 1-ounce, 12 4-drachm, and 24 2-drachm corked vials, and space for sundries, $4\frac{1}{2} \times 1 \times 4\frac{1}{2}$ inches, . . . . . | 6 75 |
| <b>3103.</b> | Buggy Case, dark morocco, contains 2 2-ounce glass-stoppered, and 4 $1\frac{1}{2}$ -ounce, 6 4-drachm, and 12 2-drachm corked vials, .   | 5 00 |

*Above is a small, handy buggy case.*

The boldface numbers represent instruments illustrated.



## VIAL CASES—Continued.

**No. 3104.****No. 3105.**

PRICE.

- 3104.** Buggy Case, dark morocco, contains 3 3-ounce, 20 1-ounce, and 15 long 4-drachm corked vials; two covered spaces for instruments and sundries; nickel trimmings; case closes with a spring catch and has a lock and key, . . . . . \$12 50
- 3105.** Buggy Case, dark morocco, contains 4 1½-ounce, 9 6-drachm, and 12 2½-drachm corked vials; also 2 1½-ounce glass-stoppered bottles; contains a box and loops for instruments and sundries, 7 35
- 3106.** Buggy Case, dark morocco, contains 6 1½-ounce, 12 6-drachm, 14 4-drachm, and 14 3-drachm corked vials; also 2 1½-ounce glass-stoppered bottles; box and pocket for sundries, with loops for surgical instruments; nickel trimmings, . . . . . 11 50

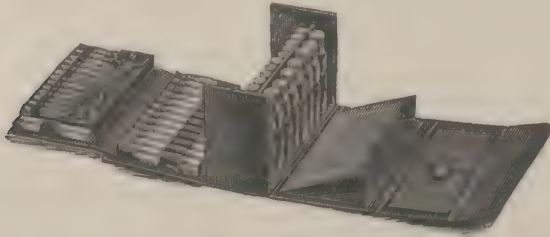
**No. 3107.**

- 3107.** Satchel Case, 10-inch frame, contains 18 1-ounce, 11 6-drachm, and 11 4 drachm corked vials, ample loops for instruments, box for sundries, and a neat plush-lined case for hypodermic syringe, 11 75
- All of the pieces holding the bottles in this case are removable, transforming it into a traveling satchel, and can be replaced at pleasure.

The boldface numbers represent instruments illustrated.

VIAL CASES—Continued.

NO.		PRICE.
3107 <sup>12</sup>	Satchel Case, 8-inch frame, contains 14 1-ounce and 18 4-drachm corked vials; of the same general style as No. 3107, . . . . .	\$10 00
3108.	Satchel Case, 9-inch frame, of exactly the same style and quality as No. 3107, but holding 18 1-ounce, 11 long 4-drachm, and 12 2½-drachm corked vials, with loops for instruments, box for syringe, thermometer, etc., . . . . .	11 35
3109.	Satchel Case, 10-inch frame, for Homœopathic physicians, same size and style as the No. 3107, but holding 11 6-drachm, 11 4-drachm, and 44 3-drachm corked vials, . . . . .	12 75
3110.	Satchel Case, 9-inch frame, with the same conveniences as No. 3107, but proportionately smaller; holding 24 4-drachm, 48 1½-drachm, and 12 2½-drachm corked vials, . . . . .	12 75



No. 3111.

- 3111.** Buggy Case, dark morocco, 8 1-ounce, 24 4-drachm, 13 1½-drachm corked vials, a graduated minim measure, small, neat case for hypodermic syringe, and one for wire, silk, needles, etc.; also loops for surgical instruments and a pocket, . . . . . 10 00



No. 3112.

The boldface numbers represent instruments illustrated.

VIAL CASES—Continued.

NO.

PRICE.

- 3112.** Buggy Case, contains 6 1½-ounce glass-stoppered, 9 1-ounce, and 12 4-drachm corked vials; in the top is a box with lid, size 9 x 3½ x 1, with instrument loops and space large enough for a small-sized stethoscope; the case closes with a spring catch and has a lock and key; it is most substantially made, . . . \$11 00



No. 3113.

- 3113.** Buggy Case, red or black morocco, contains 8 2-ounce glass-stoppered, 10 1-ounce, 8 4-drachm, and 14 2-drachm corked vials; a box for sundries, size 5¾ x 4½ x 2¾ inches, and a large pocket, . . . 9 00



No. 3114.

The boldface numbers represent instruments illustrated.

VIAL CASES—Continued.

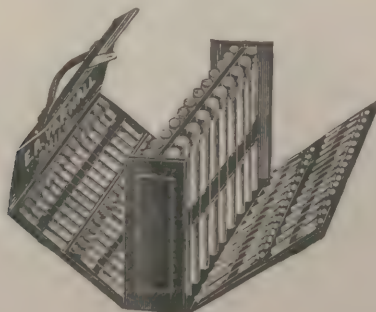
- | NO.   |   | PRICE.  |
|-------|---|---------|
| 3114. | Buggy Case, black morocco, contains 20 1-ounce and 13 6-drachm corked vials; its corners and edges are protected with nickel trimmings, and its leather is the best; it contains two covered boxes, each $4\frac{1}{2} \times 5\frac{1}{2}$ inches and $1\frac{1}{4}$ inches deep, in which may be carried pocket instrument case or sundry other articles; spring lock with key, . . . . . | \$11 50 |



No. 3115.

- |       |  |       |
|-------|--|-------|
| 3115. | Buggy Case, contains 6 2-ounce glass-stoppered, 10 1-ounce, 12 6-drachm, and 14 4-drachm corked vials; in the top is a box with lid, size $8\frac{1}{2} \times 4\frac{1}{2} \times 1$ inch, with instrument loops; the case closes with a spring catch, and has a lock and key; it is made of the heaviest and best leather, and is well protected with metal trimmings, . . . . . | 13 50 |
|-------|--|-------|

NOTE.—The row of glass-stoppered bottles rises as the case opens, and the vial labels are all exposed.



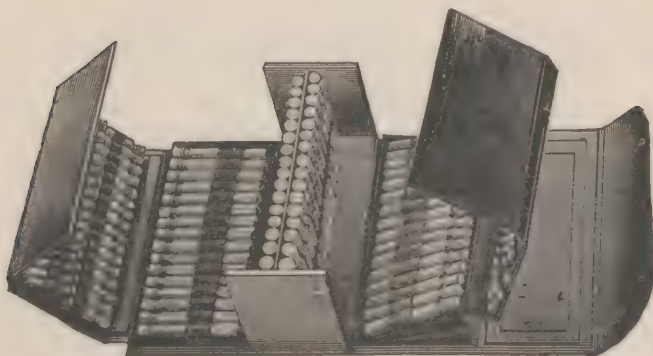
No. 3116.

- |       |   |       |
|-------|---|-------|
| 3116. | Contains 60 1-drachm, 24 2-drachm, and 10 6-drachm vials, . . . | 12 00 |
|-------|---|-------|

The boldface numbers represent instruments illustrated.

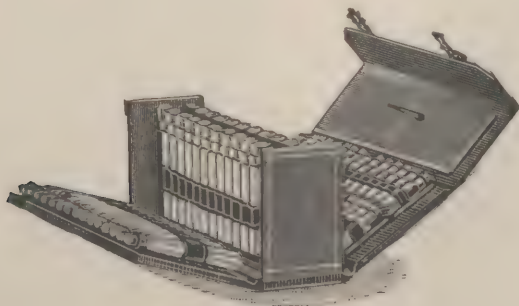


VIAL CASES—Continued.



No. 3117.

NO.		PRICE.
<b>3117.</b>	Contains 64 1-drachm and 64 2-drachm vials, . . . . .	\$13 00
<b>3118.</b>	" 64 2 " " 24 4 " " dimensions, $9\frac{1}{2}$ x $4\frac{1}{2}$ x $4\frac{3}{4}$ , . . . . .	12 00



No. 3119.

<b>3119.</b>	Contains 30 1-drachm, 24 4-drachm, and 26 2-drachm vials. . .	10 00
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FAMILY MEDICINE CASES.

<b>3120.</b>	Contains 12 $1\frac{1}{2}$ -ounce glass-stoppered bottles; enough good-sized bottles for the ordinary family medicines; also a box for sundries, plasters, teaspoon, etc., . . . . .	6 25
<b>3121.</b>	Contains 6 $1\frac{1}{2}$ -ounce glass-stoppered bottles; is a strong, flat case, very compact; designed for travelers, . . . . .	3 00
<b>3122.</b>	Graduated Minim Glass, . . . . .	25

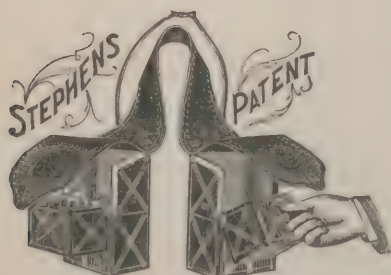
The boldface numbers represent instruments illustrated.

SADDLE BAGS.



No. 3130.

NO.							PRICE.
<b>3130.</b>	Elliott's Patent,	contains	8	$\frac{3}{4}$ -ounce	and	16	$1\frac{1}{2}$ -ounce vials, . \$ 9 00
3131.	"	"	10	$\frac{1}{4}$	"	20	$1\frac{1}{2}$ " " . 10 00
3132.	"	"	12	$1\frac{1}{2}$	"	16	$\frac{1}{4}$ " " . 11 00



3133.

- 3133.** Stephens' Patent, contains  
24 bottles, . . . . . 9 00
- 3134.** Stephens' Patent, contains  
30 bottles, . . . . . 9 75

The outer casings are of tin, covered with the best bridle leather, and the lower cases are built in the outer casing, forming a solid block. The upper boxes are made of tin, covered with leather, and swing on metal arms. The construction is such that no seams are exposed to putting together. The bottles have rubber stoppers and the partitions are of leather. The trimmings are all nickel-plated.

PAQUELIN'S THERMO-CAUTERY.

<b>3140.</b>	Paquelin's Thermo-Cautery, in case, with two cautery points, net,	\$ 22 00
<b>3141.</b>	Button Cautery, . . . . .	" 7 50
<b>3142.</b>	Knife " flat, . . . . .	" 7 50
<b>3143.</b>	" " curved flat, . . . . .	" 7 50
<b>3144.</b>	Cylindro-Conical Cautery, . . . . .	" 7 50
<b>3145.</b>	Small Knife " . . . . .	" 7 50
<b>3146.</b>	Scissors, straight or curved, . . . . .	each 20 00

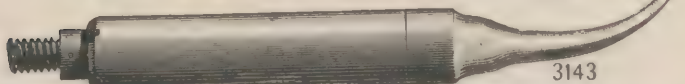
The boldface numbers represent instruments illustrated.

186 WASHINGTON ST., BOSTON.

PAQUELIN'S THERMO-CAUTERY.



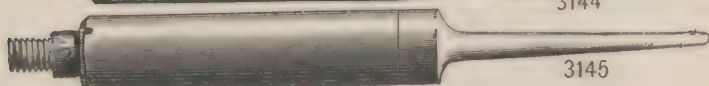
3142



3143



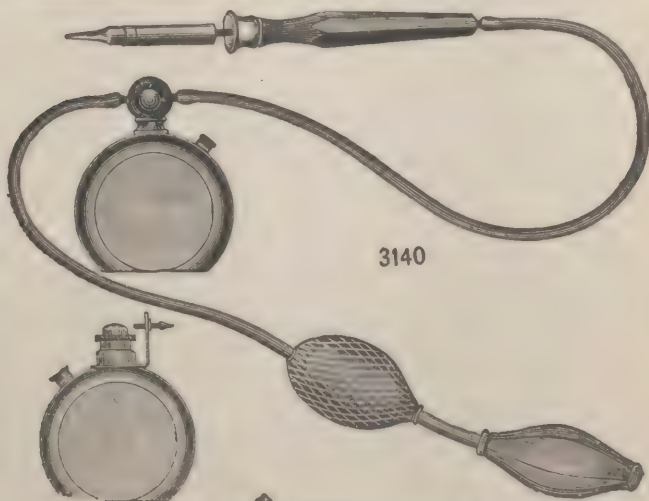
3144



3145



3141



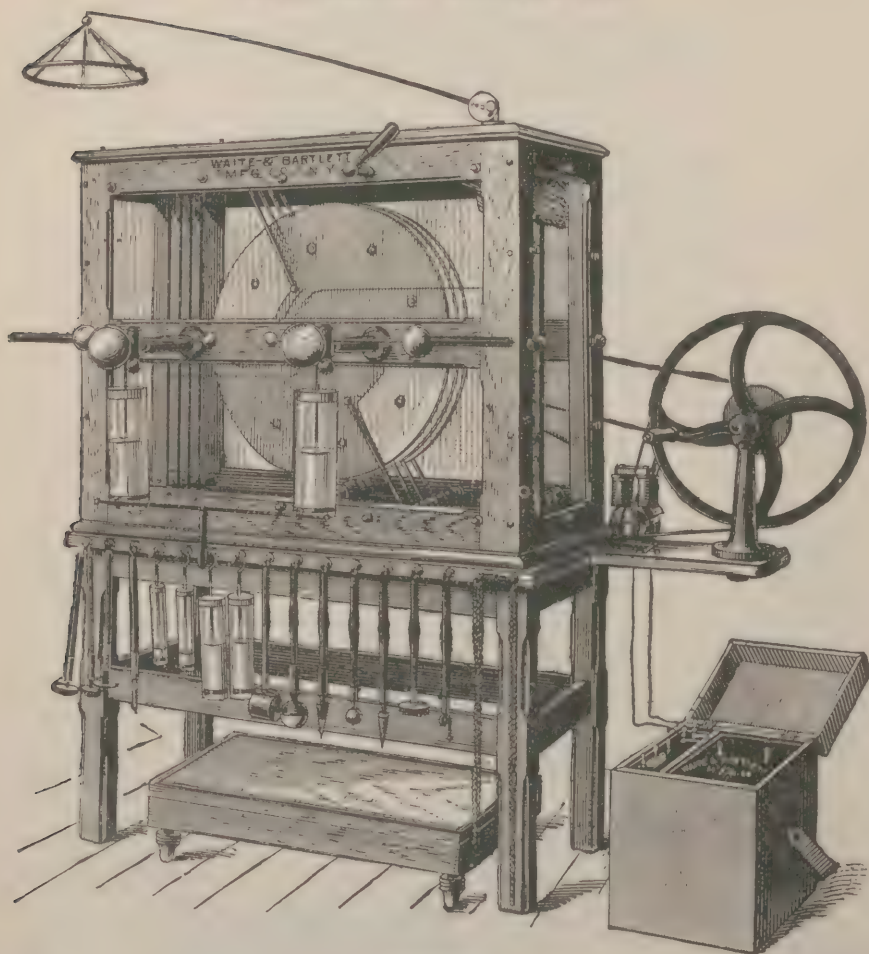
3140



3140

# C. H. GOLDTHWAITE & CO.,

## ELECTRICAL APPARATUS.



NO.	No. 3150.	PRICE.
3150.	Waite & Bartlett's Holtz Induction Machine, as improved by Prof. A. L. Ranney, M.D., with six 26-inch revolving plates and set of electrodes, set of medical Leyden jars, with attachments for giving the induced current, and insulated platform; height, 63 inches; width from back to pole pieces, 36 inches; total length, 72 inches; furnished in handsome antique oak or mahogany; complete, with electrodes, . . . . .	\$400 00
	With Electro-Motor for using the Edison Current, . . . . .	440 00
	With Electro-Motor for using Storage Battery Current, . . . . .	435 00
These machines are shipped in crates, and do not have to be put together by the purchaser.		

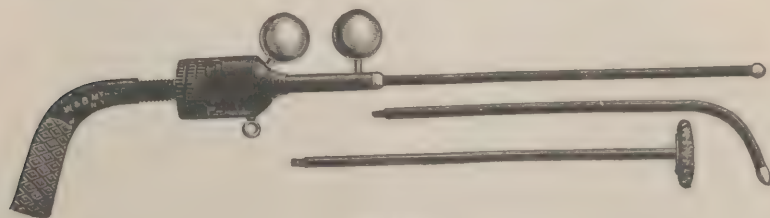
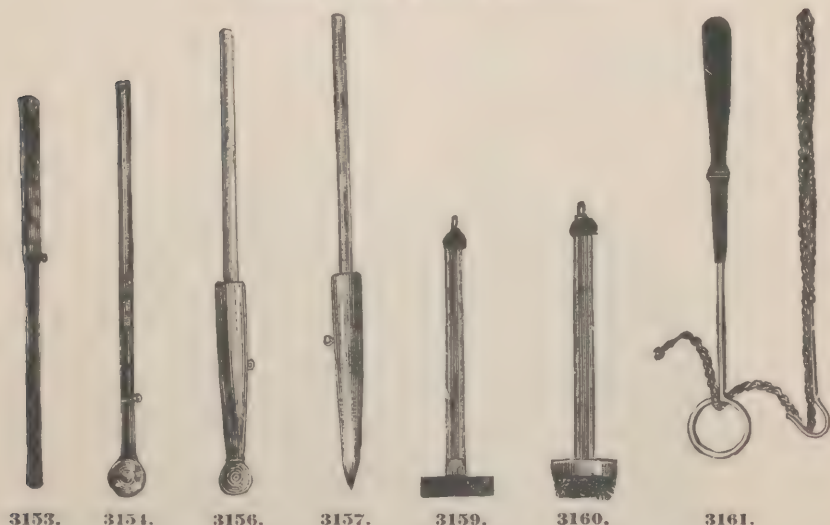
*25-25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.



## ELECTRICAL APPARATUS—Continued.

## ELECTRODES FOR STATIC MACHINE.



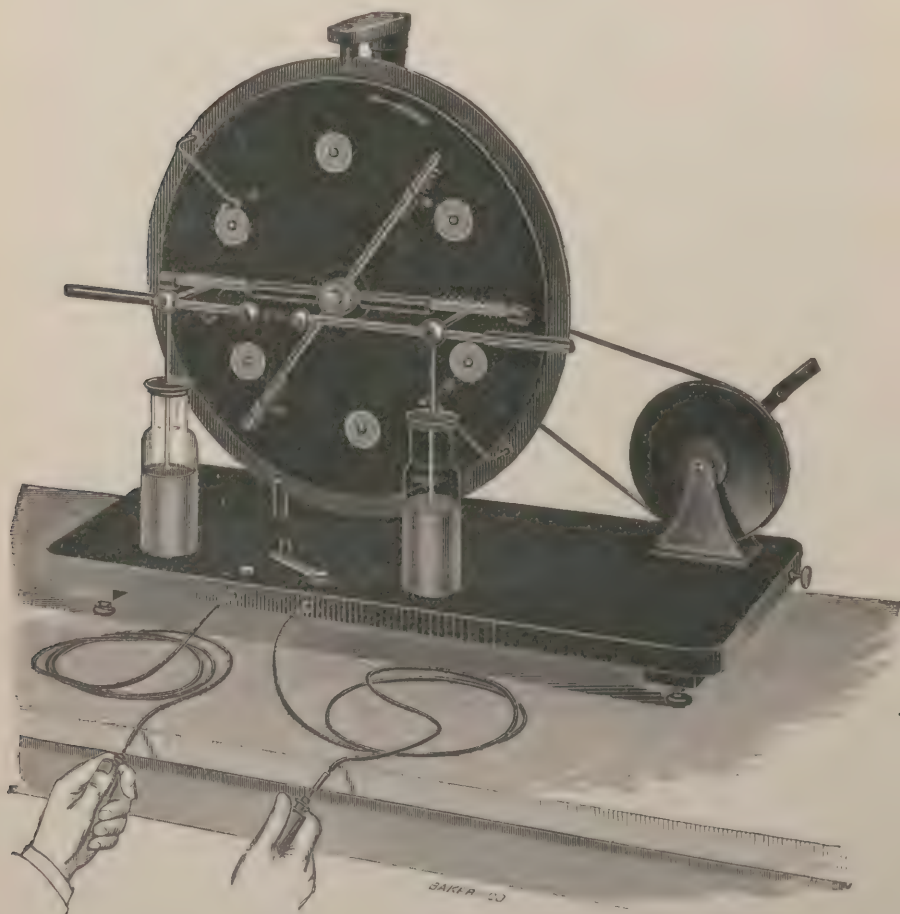
No. 3167.

NO.		PRICE.
<b>3153.</b>	Carbon Electrode, . . . . .	net \$2 00
<b>3154.</b>	Brass Ball, 1¼-inch diameter, . . . . .	" 3 00
3155.	" " 2¼ " " . . . . .	" 4 00
<b>3156.</b>	Wood " Electrode, . . . . .	" 2 00
<b>3157.</b>	" Point " . . . . .	" 1 75
3158.	Spinal Roller for massage, . . . . .	" 5 50
<b>3159.</b>	Rubefacient, . . . . .	" 3 00
<b>3160.</b>	Brass Brush, . . . . .	" 3 00
<b>3161.</b>	Chain Holder, . . . . .	" 3 50
3162.	Brass Point, . . . . .	" 3 00
3163.	Handles and Sponges, . . . . .	" 3 50
3164.	Leyden Jar, small, . . . . .	" 2 50
3165.	" " medium, . . . . .	" 3 35
3166.	" " large, . . . . .	" 4 15
<b>3167.</b>	Morton's Pistol Electrode, . . . . .	" 25 00

The boldface numbers represent instruments illustrated.

**ELECTRICAL APPARATUS—Continued.**

NO.		PRICE.
3170.	McIntosh Battery Co.'s Atkinson's Toepler Electric Machine, with glass plates, 16 and 18 inches in diameter, . . . . .	\$70 00
3171.	McIntosh Battery Co.'s Atkinson's Toepler Electric Machine, with glass plates, 25 and 28 inches in diameter, . . . . .	150 00



No. 3172.

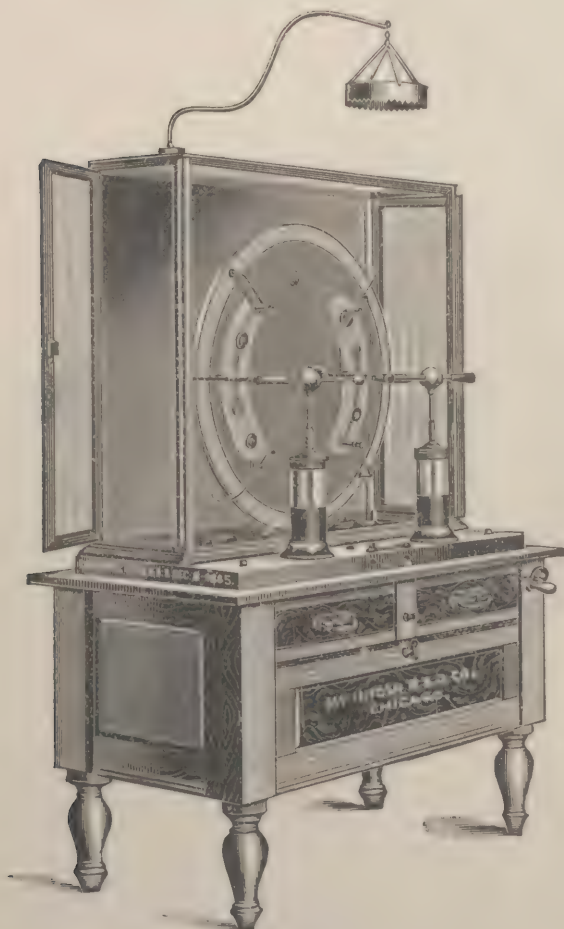
- 3172.** McIntosh Battery Co.'s Atkinson's Toepler Electric Machine, with four glass plates, 25 and 28 inches in diameter, . . . . . 250 00

Each machine is furnished with a pair of nickel plated handles, two conducting cords, each five feet long, composed of twelve fine copper wires, double wound with wool and enveloped in silk, and furnished with tips.

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.

ELECTRICAL APPARATUS—Continued.



No. 3173.

NO.		PRICE.
3173.	McIntosh Battery Co.'s Atkinson's Toepler Electric Machine, with glass protecting case, 4 plates, without attachment for electric motor, . . . . .	\$300 00
	As above, with attachment for electric motor, . . . . .	325 00
	Including $\frac{1}{8}$ H. P. Motor, for use either with battery or incandescent current, . . . . .	370 00
	— 25 per cent. discount to Physicians.	

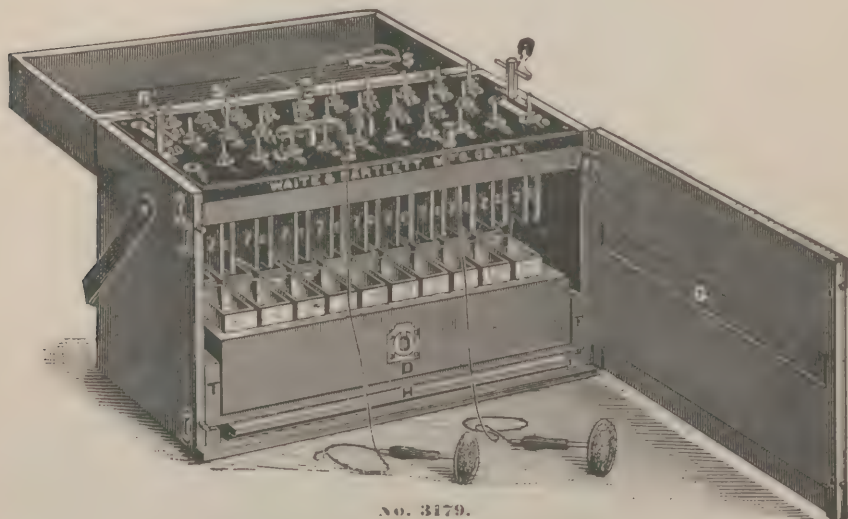
The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## ELECTRICAL APPARATUS—Continued.

### WAITE & BARTLETT MANUFACTURING COMPANY'S PLUG AND SOCKET GALVANIC BATTERIES.

NO.		PRICE.
3175.	6 cells, . . . . .	\$12 00
3176.	12 " . . . . .	20 00
3177.	16 " . . . . .	24 00
3178.	20 " . . . . .	30 00



3179.	30 cells, . . . . .	38 00
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Above engraving shows a convenient form of portable galvanic battery. It is represented with the door open, showing the construction of the various parts. The cells are in a tray, which is supported by an outside tray or shelf, into which the cell-tray slides and can be readily withdrawn. The lifting rods, R R, screw into the ends of the outside tray, and by raising the same the cells are also raised until the elements are properly immersed in the fluid contained therein. The box contains a compartment at the bottom into which the hydrostat board, H, is put when not in use.

When the battery is to be carried about, this board, H, is placed on the top of the cells with its rubber-padded side down; the two rods, R, turned, raising the top of the cells tightly against the padded board, thus sealing them. The battery may then be carried without spilling. The 30-cell, of the above type, will give sufficient current for Apostoli's method of treating fibroid tumors and other gynecological work. The battery is furnished in handsome antique oak or mahogany case, finely polished.

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.



**ELECTRICAL APPARATUS—Continued.**

NO.

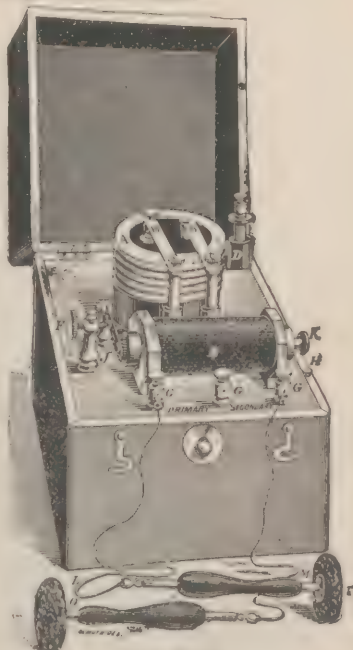
PRICE.

- 3180.** Waite & Bartlett Manufacturing Co.'s Family Battery, including cords and handles, \$10 00

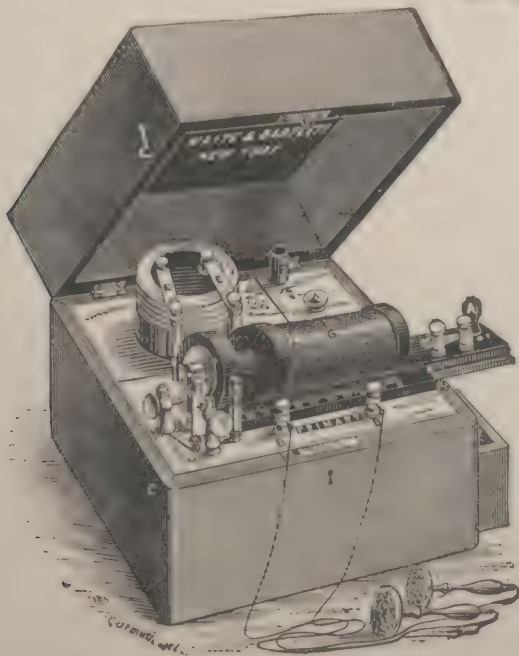
This battery is made in solid oak or mahogany case, and the workmanship of this, as well as of all our batteries, is of the highest order. For durability and cheapness it has no superior.

- 3181.** Waite & Bartlett Manufacturing Co.'s Physician's Faradic Battery, . . . . . 20 00

This is one of the most complete batteries for medical use made in portable form. It has two interrupters, fine and coarse, also single contact key for testing muscles or groups of muscles. The cell of the battery is made perfectly fluid tight, so that the solution can be carried therein without any danger whatever of spilling. The advantages it gives are found in no other instrument.



**No. 3180.**

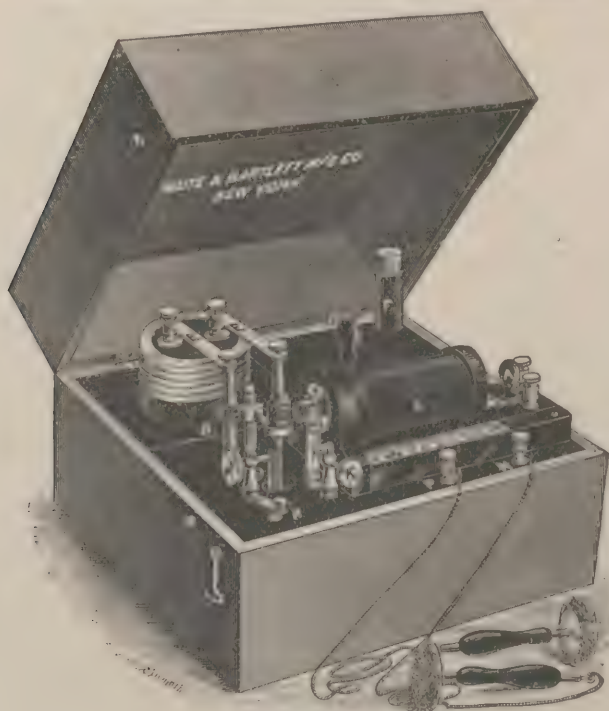


**No. 3181.**

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.

**C. H. GOLDTHWAITE & CO.,**  
**ELECTRICAL APPARATUS—Continued.**



**No. 3182.**

NO.	PRICE.
<b>3182.</b> Waite & Bartlett Manufacturing Co.'s Physician's Faradic Battery ; is of the same construction as No. 3181, with the addition of a very fine rheotome that allows of a wide range of slow interrup- tions, . . . . .	\$27 00
<b>3183.</b> The Engelmann Faradic Battery, . . . . .	40 00

This battery is constructed after the data given in "The Use of Electricity in Gynecological Practice," by G. J. Engelmann, M.D., of St. Louis. It is provided with three coils of different sized wires, and of different lengths. The effects of these three coils are markedly different.

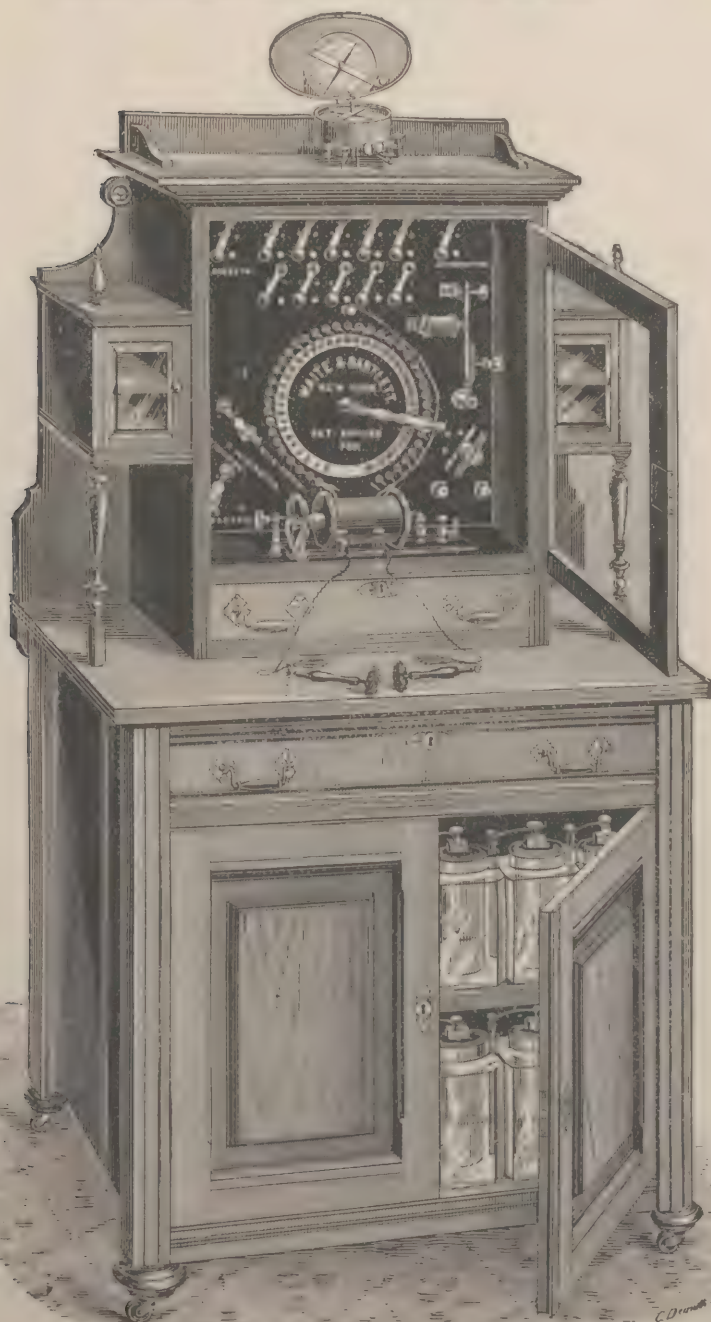
These three coils are marked respectively coarse, fine, and medium, as C, F, and M. The diameter and length of wire on each coil is also marked in millimeters and meters. Either of the three coils may be used according to the effect it is desired to produce. Use coarse coil for muscular contractions—as for contracting down a subinvolted uterus, with medium speed of interruptions. Use fine coil to relieve pain, as in cellulitis; use medium coil when muscular contractions are to be produced, but the parts are too sensitive to allow use of coarse coil.

~~25~~ 25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.

186 WASHINGTON ST., BOSTON.

ELECTRICAL APPARATUS—Continued.

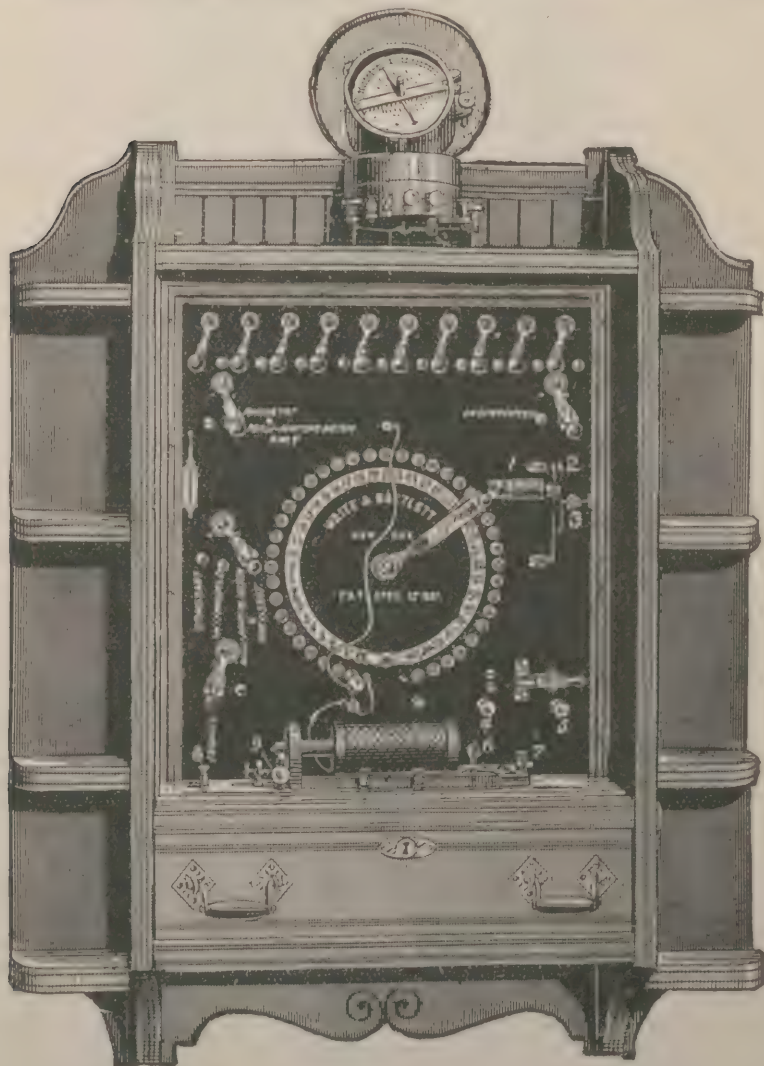


No. 3184.

See description, page 279.

**ELECTRICAL APPARATUS—Continued.**

NO.		PRICE.
3184.	Ranney Cabinet, antique oak or mahogany ; height, 69 inches : length, 41 inches ; depth, 22 inches, . . . . .	\$260 00



**No. 3185.**

3185.	Wall Cabinet Battery, complete, with cells, as shown above, and a fine assortment of electrodes ; height, 34 inches ; width, 29 inches ; depth, 8 inches, . . . . .	200 00
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The above cut represents the switch board in the Ranney cabinet, in wall cabinet form. Cells may be put in any convenient place (closet or cellar).

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.



**ELECTRICAL APPARATUS—Continued.**

**DESCRIPTION OF THE RANNEY CABINET, No. 3184.**

This cabinet contains 44 cells of Leclanche battery. The current selector is universal, and any cells from the entire series may be used, and thus a great saving of the battery and uniform wear of same are obtained. It contains also an automatic rheotome for giving intermittent or vibratory galvanic currents. The polarity changer, or commutator, is of substantial make, and has rubbing contacts. The German silver wire rheostat has coils from 5 ohms to 5000 ohms resistance each, and by means of this rheostat and the milli-ampere meter shown at top of cabinet the resistance of the patient's body may be measured and the condition of the cells tested. If desired to vary the current more gradually than by means of drawing on one cell at a time by means of the current selector, the water rheostat may be used, as is desirable in the treatment of fibroid tumors and gynecological treatment where strong currents are used. The cabinet also includes the Dubois Reymond style of faradic apparatus complete. The secondary coil can be removed, and coils of various sizes and lengths of wire may be used and the various qualities of current obtained. It is provided with a slow and rapid rheotome, also with contact or rheotome key to be operated by the finger at will, a great help in diagnosis and muscle testing. The instrument, also, is furnished with our best milli-ampere meter for measuring the current flow. The casters are large and rubber tired, making it easy to roll, noiseless, and capable of being moved on a polished floor without marring the same. The cupboard has doors in the back as well as in the front, making the cells very accessible. We furnish with this apparatus a fine assortment of electrodes. The above description applies in general to the Wall Cabinet No. 3185.

**NO. GALVANO-FARADIC CO.'S BATTERIES.**

PRICE.

**3186.** Galvano-Faradic Co.'s Family Faradic Battery, . . . . . \$7 00

This has been made to meet the demand for a low-priced battery for domestic use. While it cannot be classed with our high-priced batteries, it is well made, gives a smooth, even current, and is thoroughly reliable. The box contains two cells, one to hold the fluid, and the other serves as a drip-cup for the element when not in use. The zinc and carbon plates are fastened to the under side of the base holding the coil. To start the battery into action, lift the base out of the box and change the element from the drip-cell to the cell containing the fluid. This is furnished in a neat black walnut case with metal handles and conducting cords.



**No. 3186.**

*25 per cent. discount to Physicians.*

ELECTRICAL APPARATUS—Continued.

NO. 3187. Closed-cell Faradic Battery, . . . . . \$12 00

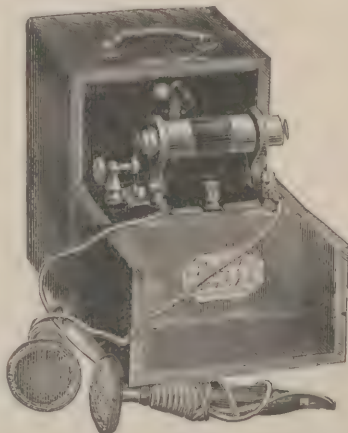
This is a very convenient form of battery for a physician or family use. It has the rapid vibrator, gives three variations of the faradic current, and is sufficiently strong for ordinary treatment.

The cell contains a solution of sal-ammoniac and water, and is sealed so that the battery can be carried about without danger of leakage.

To start the battery into action, it is only necessary to change the switch from one button to another.

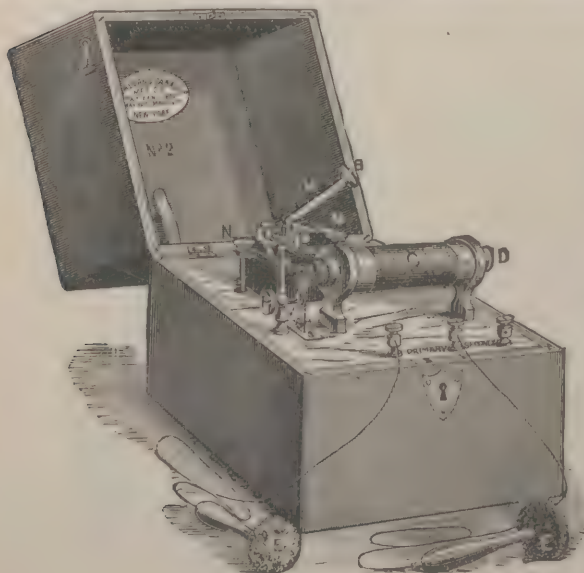
The battery will run for months without attention. The renewal of the solution and zinc is inexpensive.

Furnished in a polished oak, mahogany, or black walnut case, with handles, cords, and sponge-covered metallic disks.



No. 3187.

3188. Galvano-Faradic Co.'s Electro Magnetic Battery, . . . . . \$15 00



No. 3188.

The Nos. 3187 and 3188 Batteries are especially adapted for family use, although frequently used by physicians as a visiting battery. They have the rapid vibrator by which the current is modified so as to seem almost continuous, and can be administered without pain. They have both primary and secondary coils and give three variations of the current.

Furnished in a polished black walnut or oak case, with handles, cords, and sponge electrodes.

*25 per cent. discount to Physicians.*

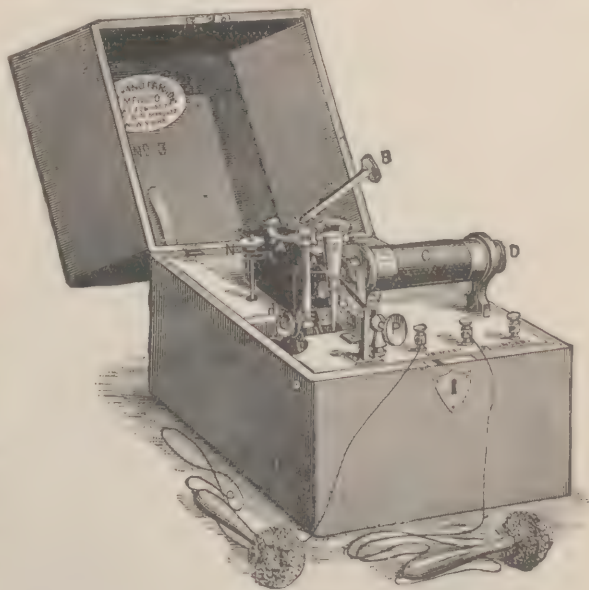
The boldface numbers represent instruments illustrated.

## ELECTRICAL APPARATUS—Continued.

NO. **3189.** Galvano-Faradic Co.'s Electro-Magnetic Battery, . . . . . PRICE. \$20 00

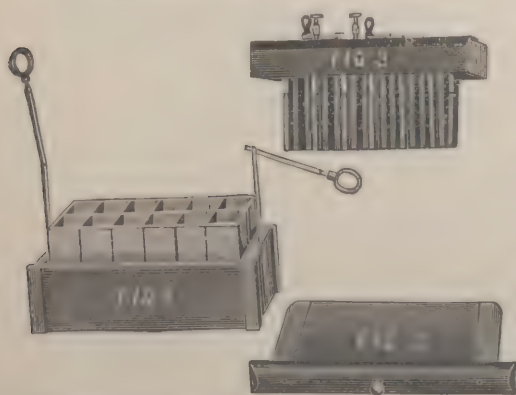
This battery has a large coil, gives three variations of the current, and has both rapid and slow vibrators, the latter being valuable in producing muscular contractions. This can be regulated so as to give slow and distinct shocks as well as quick vibrations, at the will of the operator.

Furnished in a polished black walnut or oak case, with handles, cords, and sponge electrodes.



No. 3189.

## DESCRIPTION OF GALVANO-FARADIC CO.'S GALVANIC BATTERIES.



In the bottom of the box is a movable tray in which the cells are placed. (See Fig. 1.) This tray is controlled by two hinged rods which are fastened to it, and these by two lifting-rings at the ends of the rubber table.

These rings, being screwed tightly down, hold the cells firmly against the hydrostat (see Fig. 2), or, being loosened, allow the hydrostat to be re-

moved from the front of the centre of the box; they also serve as handles to lift the tray of cells.

The zinc and carbon plates are arranged in couples and fastened to a base under the rubber table. (See Fig. 3.) Wires connect the elements with the button within the circles on the rubber table, each button corresponding to a cell. These wire connections being incased, the fumes from the fluid cannot

*At 25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.

## ELECTRICAL APPARATUS—Continued.

**No. 3191.**

**No. 3192.**

NO.	PRICE.
<b>3191.</b> 10-cell Galvanic Battery, in plain case, . . . . .	\$20 00
<b>3192.</b> 20-cell " " " " " " . . . . .	30 00

These batteries are constructed on the same principle as those quoted on the preceding pages. While they are not equal in finish, they are well made, durable, and reliable, and will meet the requirements of the physician who wants a good battery at a low price.

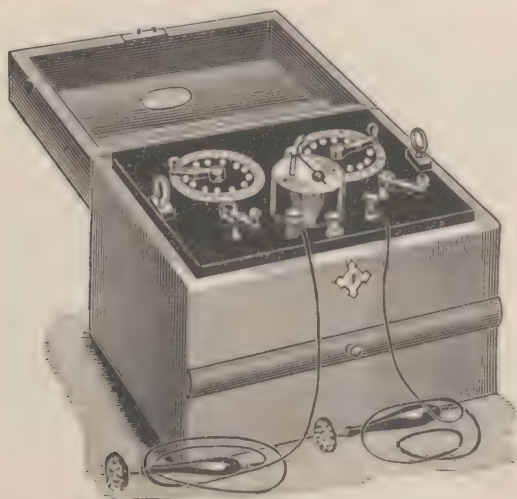
Furnished in black walnut cases, with handles, cords, and sponge-covered metallic disks.

**25 per cent. discount to Physicians.**

The boldface numbers represent instruments illustrated.



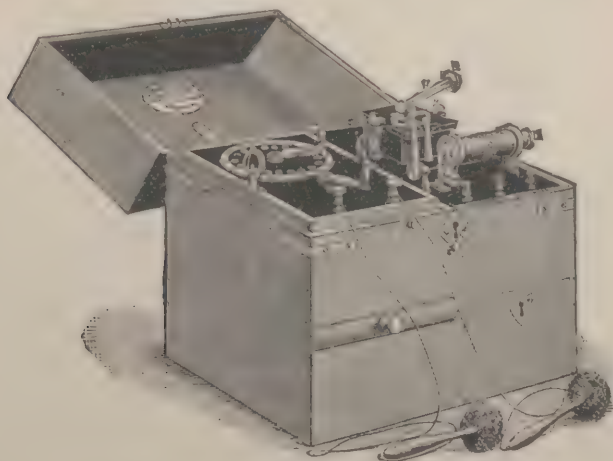
## ELECTRICAL APPARATUS—Continued.



No. 3193.

NO.		PRICE.
<b>\$193.</b>	24-cell Galvanic Battery, with rheotome attachment. . . . .	\$60 00
<i>3194.</i>	32-cell     "      "      "      "      "      "      "	70 00
<i>3195.</i>	36-cell     "      "      "      "      "      "      "	80 00

These batteries are provided with our new automatic rheotome. This accessory is for the purpose of interrupting the galvanic current, and may be used to advantage when it is desired to obtain a powerful muscular stimulation.



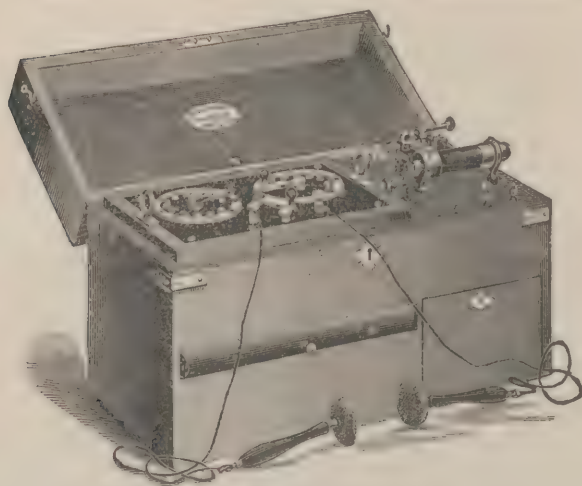
No. 3196.

**3196.** 16-cell Combined Galvanic and Faradic Battery, . . . . . \$45 00

 25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.

**C. H. GOLDTHWAITE & CO.,**  
**ELECTRICAL APPARATUS—Continued.**

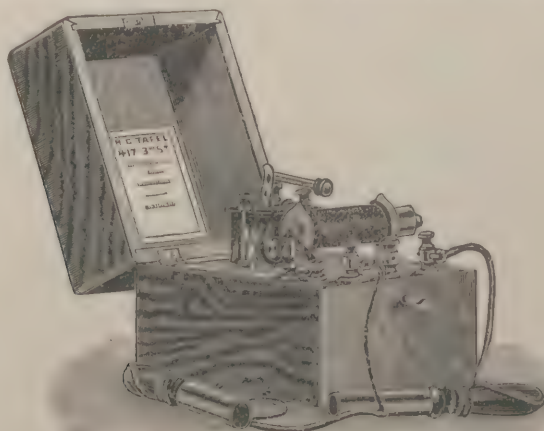


**No. 3197.**

**PRICE.**

**NO.** **3197.** 24-cell Combined Galvanic and Faradic Battery, . . . . . \$60 00

Our instruments are made no larger by the combination. The combination of a galvanic battery with a faradic *(or, rather, their being contained in the same case)* enables the physician to use either form of current at will, and in this respect they are desirable, especially *for office practice or for the specialist.*



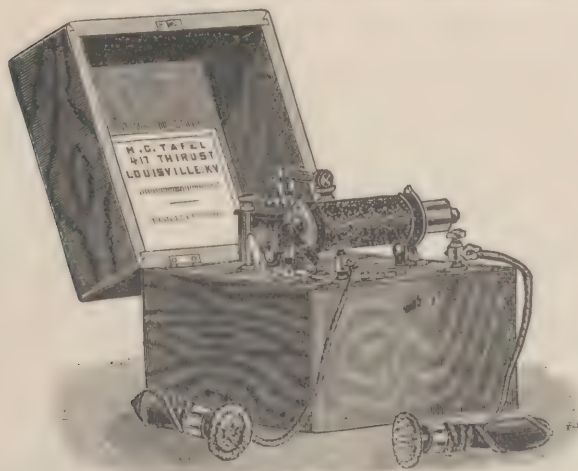
**No. 3198.**

**3198.** Family Battery, including cords and metal handles: without lock: all metal parts nickel-plated; dimensions: height, 6 inches; width,  $5\frac{7}{8}$  inches; depth, 7 inches; oak or walnut case, highly polished, . . . . . \$10 00

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.

ELECTRICAL APPARATUS—Continued.



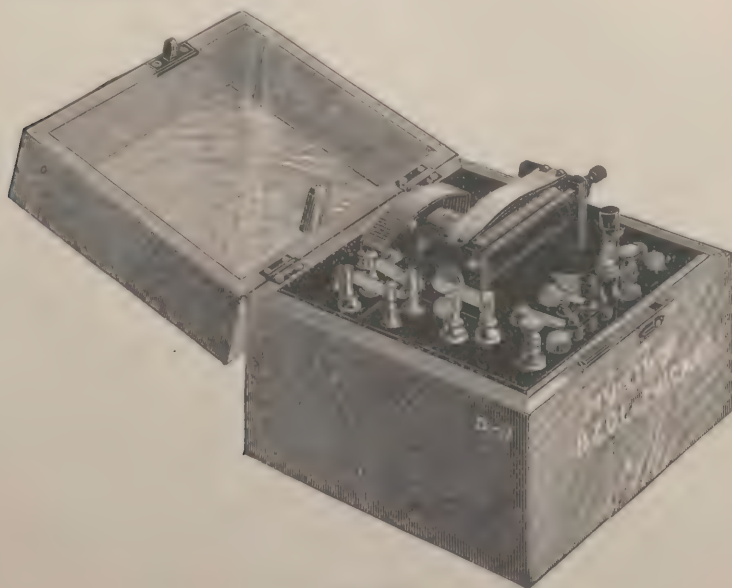
No. 3199.

PR. CE.

- NO. 3199. Physician's Faradic Battery : fine-current instrument, including cords, sponges, and handles ; without lock ; metal parts all nickel-plated ; dimensions: height,  $6\frac{3}{4}$  inches ; width,  $6\frac{3}{4}$  inches ; depth,  $8\frac{1}{4}$  inches ; oak or walnut case, highly polished, . . . \$18 00  
~~\$25~~ 25 per cent. discount to Physicians.

MCINTOSH BATTERIES.

3200. Family Faradic Battery, . . . . . 10 00



No. 3201.

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## ELECTRICAL APPARATUS—Continued.

NO.		PRICE.
3201.	Physician's Faradic Battery, . . . . .	\$30 00
This instrument is intended for a physician's visiting battery. It is put up in a finely polished black walnut case, 8 inches long, 8 inches wide, and 6½ inches high. All the metal work is finely nickel-plated.		
3202.	12-cell Galvanic Battery, . . . . .	\$30 00
3203.	18-cell " " . . . . .	40 00



No. 3204.

3204.	24-cell Galvanic Battery, . . . . .	55 00
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In a polished black walnut case 18 inches long, 8¼ inches wide, and 7¼ inches high, with lock and handle, metal work all nickel-plated, first-class sponge electrodes, cable conducting-cords, and hard rubber electrode case weighs less than 20 pounds. The battery gives a galvanic current of great intensity, sufficient to treat any case where it is indicated.

3205.	12-cell Combined Galvanic and Faradic Battery, . . . . .	\$40 00
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Same style of case and finish as the above, 13½ inches long, 8¼ inches wide, 7¼ inches high, with first-class Faradic coil, polished hard rubber ends and cover, extra large cell to run the coil, electrodes, our new cable conducting cords, and hard-rubber electrode box. This battery gives a galvanic current same as above described, and a Faradic current of sufficient strength to treat any case.

3206.	18-cell Combined Galvanic and Faradic Battery, . . . . .	\$52 50
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3207.	24-cell " " " " . . . . .	67 50
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~~\$5~~ 25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.



ELECTRICAL APPARATUS—Continued.



No. 3205.

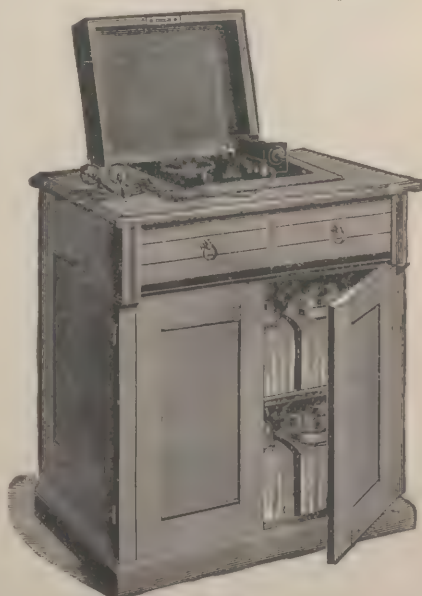
NO.	PRICE.
3208. McIntosh (No. 2) Cabinet Battery, complete, with 36 Diamond carbon cells, . . . . .	\$100 00

This cabinet has the No. 2 table plate, and is the most elegant and complete office battery in the world for the same money.

In this cabinet we use the celebrated Diamond carbon cell, the fluid of which is a solution of muriate of ammonia; the elements are zinc and carbon rods. The cell is perfectly sealed, so that evaporation is impossible, a feature that in itself highly recommends any cell for office purposes. The cell has the following advantages:

1. Perfect cleanliness.
2. High electro-motive force—  
1.75 volts.
3. Small internal resistance.
4. Great power of recuperation.

After this battery has been put in operation it requires *no attention* for a year. With the cabinet complete, we furnish insulated wire for connecting the cells to the table plate, and muriate of ammonia for charging.



No. 3208.

~~25~~ 25 per cent. discount to Physicians.

The boldface numbers represent instruments illustrated.

ELECTRICAL APPARATUS—Continued.

NO.		PRICE.
3209.	McIntosh (No. 1) Cabinet Battery, with 48 Diamond carbon cells, complete, . . . . .	\$189 00
	With 48 Gonda cells, complete, . . . . .	189 00
	" 42 Law " " . . . . .	204 90



No. 3210.

3210.	McIntosh (No. 2) Table Battery, in polished walnut case, with lock and key, . . . . .	35 00
	Without case, . . . . .	30 00

This will meet the wants of the profession where a less expensive battery is desired. The following accessories are neatly arranged on a polished hard rubber base, 10 x 12 inches:—

A galvanic *double* switch by which the operator is enabled to use cells from *any part* of the circle, thus obviating the necessity of using the first cells *first*. The buttons are arranged for 25 or more cells as desired; a Faradic coil with polished hard rubber ends and cover; pole changer; two binding posts, from which the galvanic, primary, or secondary Faradic currents may be taken by means of a switch; and a switch to connect coil with one or more galvanic cells.

3211.	McIntosh (No. 1) Table Battery, in polished walnut or oak case, with lock and key, . . . . .	\$110 00
	Without case, . . . . .	106 00

Where instrument is fastened to a table or other furniture not having room for the cells underneath, they may be placed in a closet or cellar out of the way.

**25 per cent. discount to Physicians.**

The boldface numbers represent instruments illustrated.

**ELECTRICAL APPARATUS—Continued.****DESCRIPTION OF THE McINTOSH COMBINED GALVANIC AND FARADIC BATTERIES.**

These batteries are constructed on an improved plan. The zinc and carbon plates are arranged in couples and securely clamped to hard-rubber plates with thumb-screws. Thus any of the couples can be removed by simply loosening a screw. The thumb-screws are also used for binding posts. By this manner of connecting, the plates are brought nearer together than in any other battery, thus giving less internal resistance. The cells are made in sections of six and a drip-cup, composed of one solid piece of hard rubber. By this arrangement one section can be handled, emptied, and cleaned as easily and quickly as one cell. It also prevents the liquid from running between the cells, as is the case when single cells are used, and danger of breaking, as is the case with glass cells. The drip-cup on the side of each section of cells is to receive the zinc and carbon plates when removed from the cells. We manufacture these cells in our factory and carefully test them with acid the same strength as battery fluid. By this test we know that every cell is perfect before it leaves the shop.

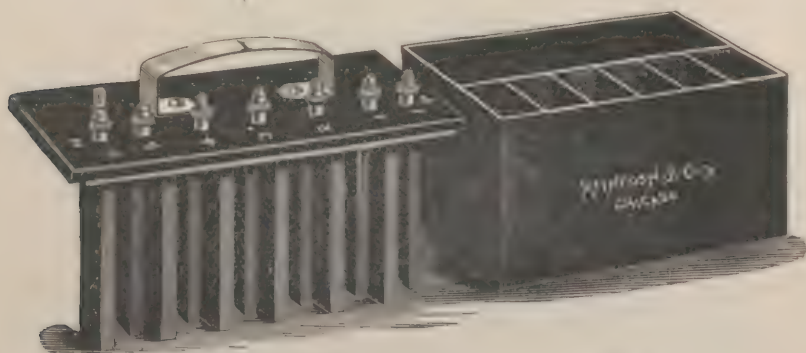
**Fig. 1.****Fig. 2.**

Fig. 1 shows the hard-rubber plate of a section (on the under-surface of which is cemented a sheet of soft vulcanized rubber) and binding posts which project through the hard and soft rubber and screw into the brass piece holding the zinc and carbon couples. The rubber plate on which the couples are clamped projects over on one side enough to cover the cells when the zinc and carbon plates are placed in the drip-cups. When the cells are not in use, and the lid of the battery box is closed, it presses on the *spring handle* of the section (Fig. 1) and holds the soft rubber firmly over the cells and drip-cup. By this arrangement the hydrostat is made water-tight.

Fig. 2 shows a section of six cells and a drip-cup, made of one piece of hard vulcanized rubber. The drip-cup is to receive the zinc and carbon couples when not in use.

By the aid of a simple current selector any number of cells can be used.

# C. H. GOLDTHWAITE & CO.,

## ELECTRICAL APPARATUS—Continued.

### CHLORIDE OF SILVER DRY CELL BATTERIES.



No. 3212.

NO.	PRICE.
3212. Double Coil Faradic Battery, . . . . .	net \$20 00
3213. Pocket Faradic Battery, " . . . . .	10 00
3214. "Lord Baltimore" Faradic Battery, . . . . .	net 6 50

### CHLORIDE OF SILVER GALVANIC PORTABLE BATTERIES.

3215. 6-cell Gal. Battery, . . . . .	net 10 00
3216. 12-cell " " " " " " . . . . .	15 00
3217. 16-cell " " " " " " . . . . .	20 00
3218. 24-cell " " " " " " . . . . .	27 00
3219. 32-cell " " " " " " . . . . .	35 00
3220. 50-cell " " " " " " . . . . .	50 00
3221. 60-cell " " " " " " . . . . .	60 00
3222. 84-cell " " " " " " . . . . .	82 00



No. 3220.

### DIMENSIONS OF THE 50-CELL BATTERY NO. 3220.

Length, 10 inches; width, 6 inches; depth, 7 inches; weight, 11 pounds.

3223. 24-cell Combined Galvanic and Faradic Battery, . . . . .	net \$47 00
3224. 32-cell " " " " " " . . . . .	55 00
3225. 50-cell " " " " " " . . . . .	70 00

### CHARGES FOR RENEWING AND RESTORING.

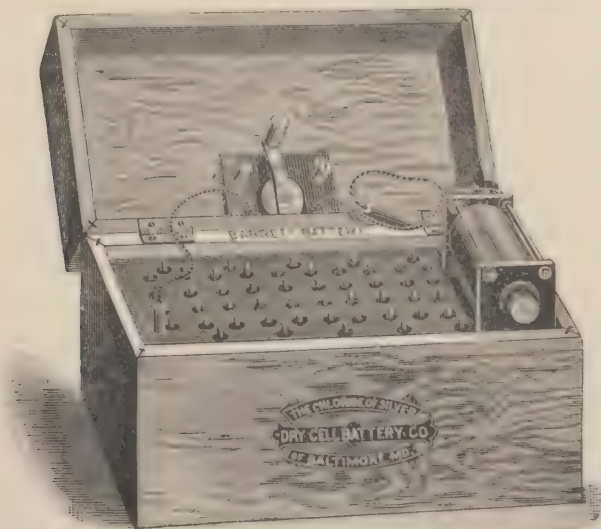
For each Galvanic cell, . . . . .	" 30
" " Faradic cell-block, . . . . .	1 50

The boldface numbers represent instruments illustrated.

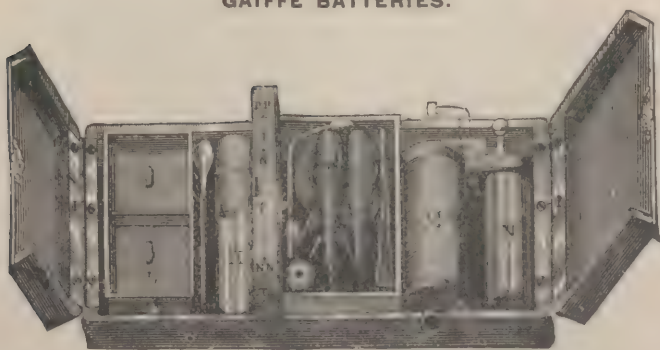


186 WASHINGTON ST., BOSTON.

### ELECTRICAL APPARATUS—Continued.



No. 3225.

**GAIFFE BATTERIES.**

No. 3230.

	PRICE.
3230. 2-cell, . . . . . net	\$ 7 50
3231. 3-cell, . . . . . "	13 50

### BATTERY ACCESSORIES.

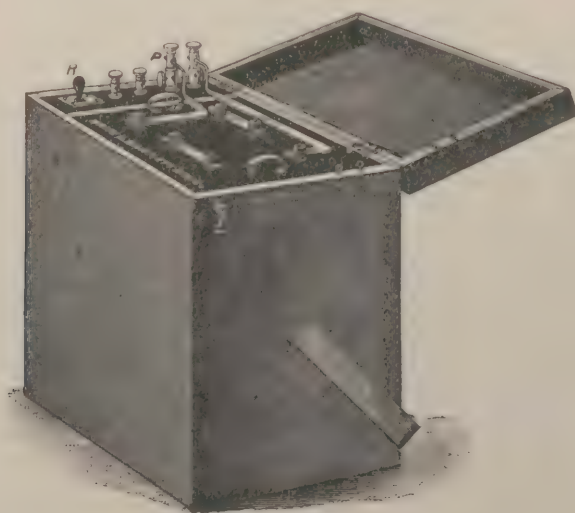
<i>3235.</i>	Cautery Cords, per pair, . . . . .	net	4 00
<i>3236.</i>	Conducting Cords, 5 feet, per pair, . . . . .	"	60
<i>3237.</i>	" " 10 " " " " . . . . .	"	1 00
<i>3238.</i>	Handles, per pair, . . . . .	"	50
<i>3239.</i>	Sponges, " . . . . .	"	50
<i>3240.</i>	Cords, Handles, and Sponges, per pair, . . . . .	"	1 60

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## ELECTRICAL APPARATUS—Continued.

NO.		PRICE.
3241.	Complete Faradic Element, . . . . . net	\$2 00
3242.	Faradic Cell, . . . . .	50
3243.	“ Zinc, . . . . .	25
3244.	“ Carbon, . . . . .	25
3245.	“ Zinc Ring, . . . . .	25
3246.	“ Binding Post, . . . . .	15
3247.	“ Hard Rubber Cap, . . . . .	50
3248.	“ Soft Rubber Cork, . . . . .	10
3249.	“ Soft Rubber, . . . . .	10
3250.	Galvanic Zinc, . . . . .	20
3251.	“ Carbon, . . . . .	20
3252.	“ Connection, . . . . .	10
3253.	“ Cell, . . . . .	25
3254.	Battery Fluid, per quart, . . . . .	40
3255.	“ “ per half gallon, . . . . .	60
3256.	Cell for Gaiffe Battery, . . . . .	1 50
3257.	Zincs “ “ “ per pair, . . . . .	25



**No. 3260.**

**3260.** Waite & Bartlett Manufacturing Co.'s Storage Battery, 3-cell, suitable for all general and special surgical work, running electric motor, bone sawing, etc.: including handle, cords, and knife, . 80 00

This engraving represents a new and improved form of storage battery of three cells for cautery and electric light purposes. The strong power is furnished by gravity batteries, 6 x 8 inches, which can be placed in a closet or cellar.

*25 per cent. discount to Physicians.*

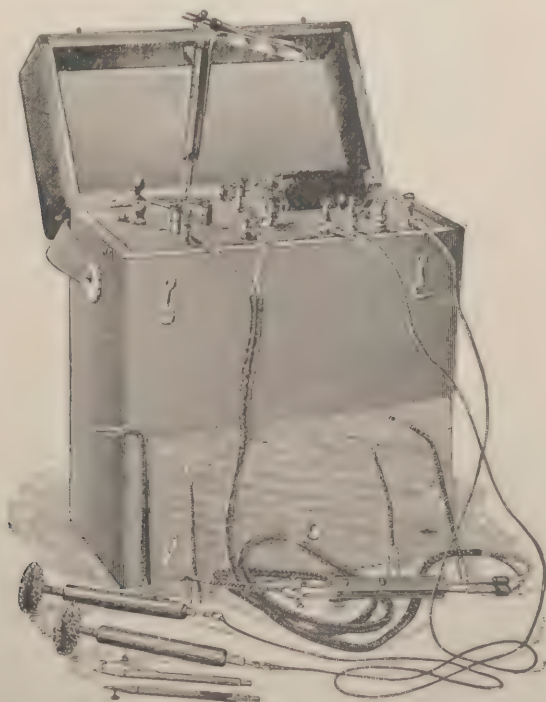
The boldface numbers represent instruments illustrated.

**ELECTRICAL APPARATUS—Continued.**

About twenty-four hours is sufficient time to thoroughly charge the battery. For cautery it will meet any requirement, and by means of a rheostat, which is provided, the current may be increased or diminished at pleasure.

One charge will hold a two-candle power lamp in a state of incandescence for ten hours. *The battery does not deteriorate when idle.* When through using, the wires connecting with the gravity batteries can be attached, thus keeping the storage cells charged to their full capacity.

Furnished in antique oak or mahogany case, complete, with rheostat. Full and complete instructions sent with each battery.

**No. 3263a.****Clauss' Galvano-Cautery and Faradic Combination Battery.**

<b>3263a.</b>	Comb-Cautery and Faradic Battery outfit, . . . . .	\$40 00
<i>3263b.</i>	Plain Cautery Battery, with full set of Instruments, . . . . .	34 00
<i>3263c.</i>	Comb-Cautery and Faradic Battery, without Instruments, . . . . .	23 00
<i>3263d.</i>	Plain Cautery Battery, without Instruments, . . . . .	17 00
	Cautery Handle, plain, . . . . .	3 50
	Cautery and Snare Handle, with Cannula and Platinum Wire, . . . . .	8 00
	Cautery Cable, 5 foot, . . . . .	1 75
	Cautery Electrodes, . . . . .	1 25 up.
	Electric Illuminator, with Handle, Tongue Depressor, and Cable, . . . . .	10 00
	Incandescent Lamps, mounted, . . . . .	1 25

Discount 25%.

The boldface numbers represent instruments illustrated.

**ELECTRICAL APPARATUS—Continued.**

The cells, eight in number, are of porcelain, and are neatly placed in a lead-lined, polished oak box. The sliding resistance is fitted into a groove in top of box, and is so made that the strength of current can be graduated with the greatest nicety.

The battery, when set up, will last with ordinary use in cautery work for about six months, during which time it needs no attention whatever.

The cells are closed, and the elements do not have to be removed from the solution, as there is practically no action when cells are not in use, and consequently no waste in battery. In this respect it is entirely unique.

It is also equally well adapted for running small motors and for lighting electric headlights for throat work and other diagnostic purposes.

Unlike the storage batteries which have been used hitherto to do the above work, it is always charged and will not get out of order.

The internal resistance is really only a fraction, as the whole energy of battery is thrown into the external circuit. To give an idea of what a powerful current it is capable of furnishing, the maximum output is 35 amperes.

The cost of renewal is cheap, and it is very easy to set up.

NO.	PRICE.
3264.	The "Galvano Faradic" Storage Battery, 15 amperes, 4 volts, . \$35 00



No. 3264.

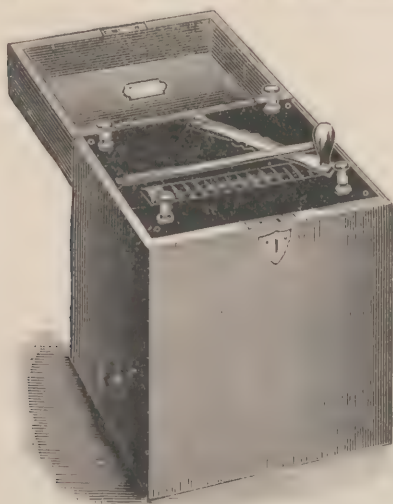
This engraving represents a new and improved form of storage battery of two cells, which is adapted to the use of the specialist for cautery operations of the eye, ear, nose, and throat, where the smallest electrodes are used, and also for lighting the electric illuminator for throat and vaginal examinations. The storage plates are securely fastened to a plate of polished hard rubber. Soft rubber is secured on the under side of this plate, and by means of five thumb-screws the whole is forced down over the cells, sealing them tightly, so that the battery can be carried without danger of spilling the fluid.

*Save 25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.



ELECTRICAL APPARATUS—Continued.



No. 3265.

NO.

PRICE.

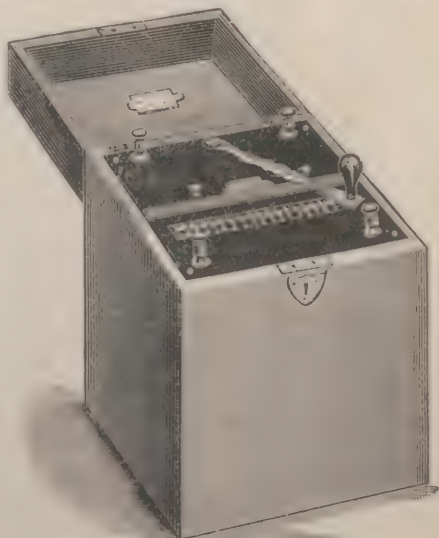
**3265.** The "Galvano-Faradic" Storage Battery, 50 amperes, 4 volts, \$45 00

The No. 3265 storage battery is designed for ordinary cautery purposes, and may be used in connection with the electro-laryngoscope, and also to operate any motor requiring a current of four volts or less.

**3266.** The "Galvano-Faradic" Storage Battery, 50 amperes, 6 volts, . \$60 00

The No. 3266 storage battery is designed for general cautery work, and is capable of heating the largest electrodes or a loop of any required size. It is particularly adapted for running the "C. & C.," and any other motor requiring six volts or less.

These batteries are furnished in highly polished oak cases, with heavy conducting cables and rheostat to control the current. The cells, when exhausted, can be charged by connecting with an incandescent electric-light circuit or with gravity cells, eight cells being required for the two-cell battery and twelve cells for the three-cell battery. There is no danger of overcharging by this latter process.



No. 3266.

*50-25 per cent. discount to Physicians*

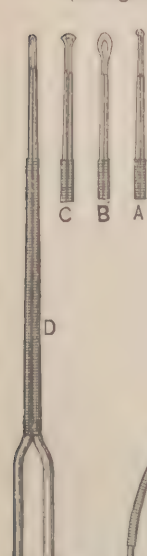
The boldface numbers represent instruments illustrated

## ELECTRICAL APPARATUS—Continued.

### GALVANO-CAUTERY ELECTRODES.

#### NASAL ELECTRODES.

(Straight.)

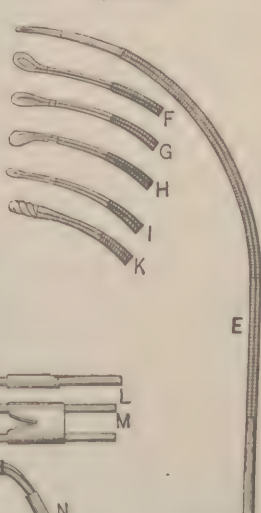


No. 3267.

NO.	PRICE.
<b>3267</b> A. Bulb pointed, . . . . .	\$1 50
B. Knife, . . . . .	1 50
C. Curette, . . . . .	1 50
D. Point, . . . . .	1 50
<b>3268</b> E. Point, . . . . .	2 00
F. Post Nares Curette, . . . . .	2 00
G. Knife, . . . . .	2 00
H. Laryngeal Curette, . . . . .	2 00
I. Pointed Bulb, . . . . .	2 00
K. Tonsil ( <i>spiral</i> ), . . . . .	2 50

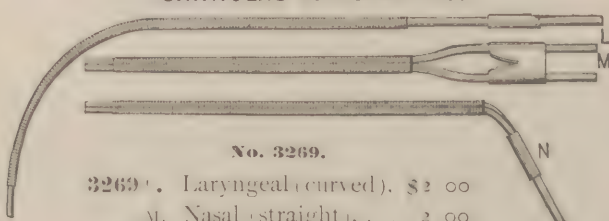
#### LARYNGEAL ELECTRODES.

(Curved.)



No. 3268.

### CANNULAS FOR SNARING.



No. 3269.

<b>3269</b> L. Laryngeal (curved), . . . . .	\$2 00
M. Nasal (straight), . . . . .	2 00
N. Nasal (angular), . . . . .	2 00

Special forms of Cautery Electrodes made to order.



No. 3270.

**3270.** Plain Cautery Handle, . . . . . \$4 00



No. 3272.

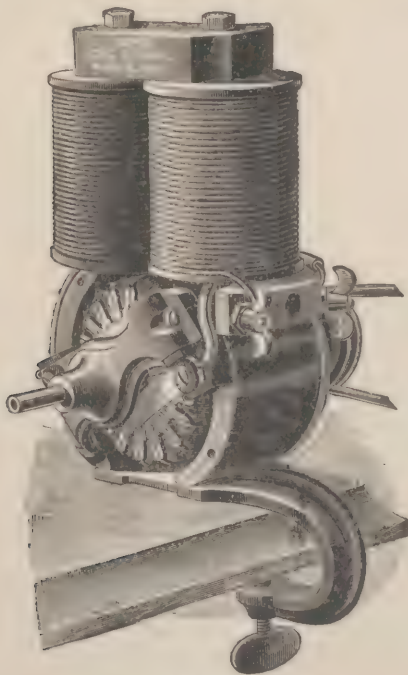
- 3272.** Universal Cautery Handle, with ratchet attachment with *écraseur*, 2 knives, 2 points, 1 curette, and 18 inches of platinum iridium wire for the snare; in a velvet-lined, morocco-covered case, . \$20 00
- 3273.** Universal Handle, with *écraseur*, . . . . . 12 00

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.

186 WASHINGTON ST., BOSTON.

ELECTRICAL APPARATUS—Continued.



No. 3275.

<p>NO.  <b>3275.</b> <math>\frac{1}{8}</math> Horse-power Motor, for running nasal drill, static machine, or dental engine, . . . . .</p>	<p>PRICE.                  . . . . . \$27 00</p>
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No. 3277.                      No. 3278.                      No. 3279.

*25 per cent. discount to Physicians.*  
 The boldface numbers represent instruments illustrated.

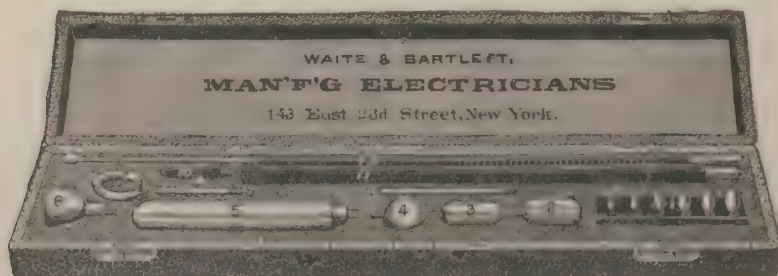
# C. H. GOLDTHWAITE & CO.,

## ELECTRICAL APPARATUS—Continued.

NO.		PRICE.
3276.	Flexible Shaft and Hand Piece, to fit burrs and trephines, . . .	\$20 00
3277.	Conical Burrs, . . . . . each	2 00
3278.	Curtis Trephines, . . . . . "	2 00
3279.	Protecting Sheaths (for foregoing), without burrs. . . . . "	4 00

## ELECTRODES.

3290.	Apostoli's Bipolar Vaginal Electrode, for Faradic current, . . .	4 00
3291.	Dr. Fry's Intra-Uterine Electrodes, for stenosis, in case, . . .	6 00
3292.	Improved " " " localizing the current in the uterus, . . . . .	2 50
3293.	Uterine Electrode, for treating the ovaries, . . . . .	2 00
3294.	Munde's Combination Electrode, . . . . .	5 00
3295.	Goelet's Intra-Uterine " . . . . .	2 66
3296.	" Uterine Puncture Needle, insulated, with measuring shield, . . .	7 50
3297.	" Cannula Electrode, silver cannula and platinum trocar and adjustable sheath, . . . . .	7 50
3298.	Apostoli's Platinum Electrode, for galvano-puncture and intra-uterine use, in electrolysis of fibroid and cystic tumors, . . .	28 00
3299.	Cup-shape Electrode, for uterus, . . . . .	2 00
3300.	Apostoli's Bipolar Intra-Uterine Electrode, for Faradic current, . .	4 00
3301.	Vaginal Electrode, . . . . .	1 50
3302.	" " hard rubber, metal tipped, . . . . .	2 00
3303.	Set of Uterine Electrodes, with 8 adjustable tips of prepared steel for the use of positive current, applied internally, . . . . .	7 33



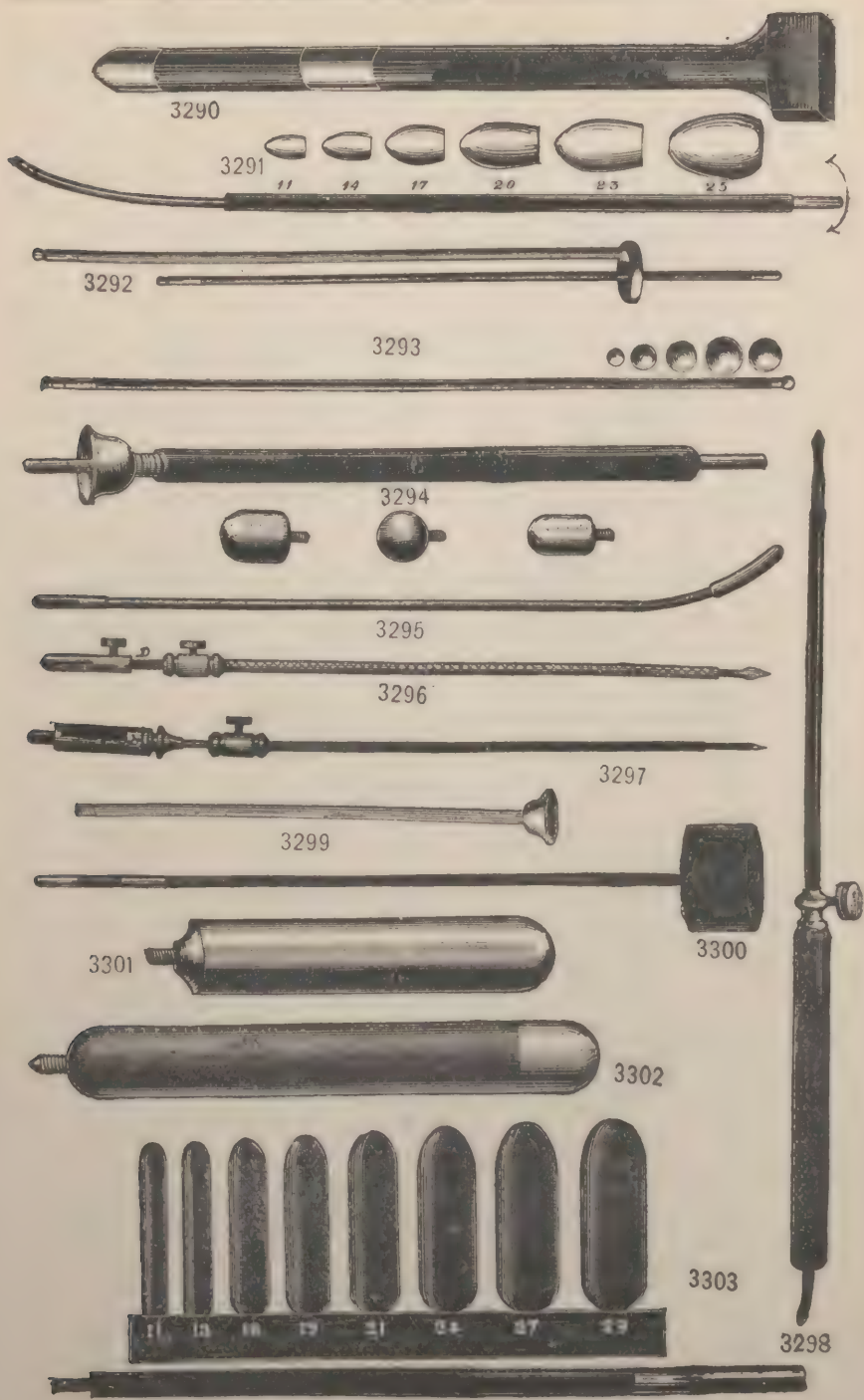
## No. 3304.

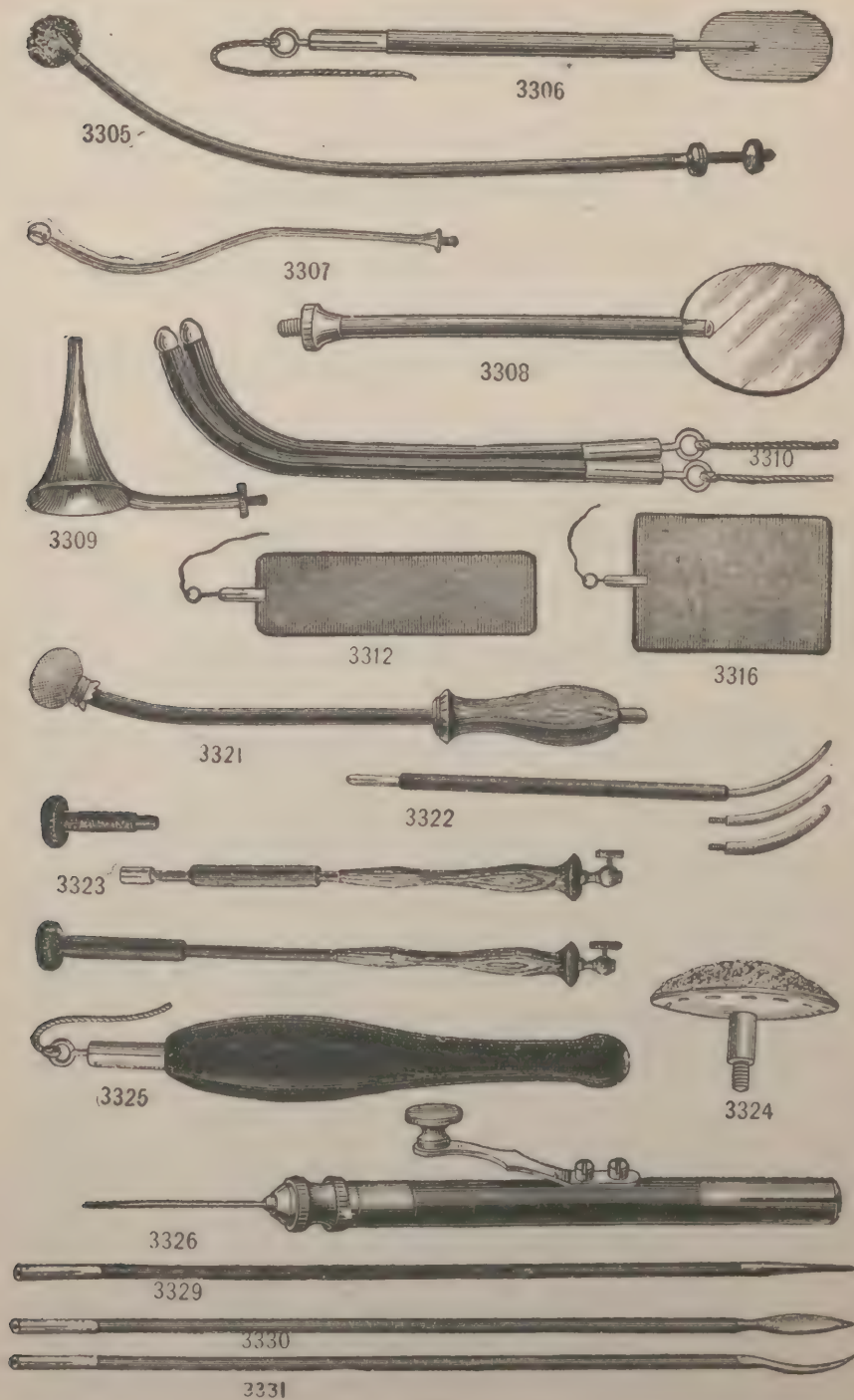
3304.	Combination Gynecological Set, . . . . .	13 50
3305.	Universal Electrode, for the Throat, . . . . .	2 35
3306.	King's Nasal " . . . . .	1 50
3307.	Nasal Electrode, . . . . .	1 50
3308.	Tongue Plate, . . . . .	1 50
3309.	Ear Electrode, . . . . .	2 50
3310.	King's Double Current Eye Electrode, . . . . .	2 65

*25 per cent. discount to Physicians.*

The boldface numbers represent instruments illustrated.





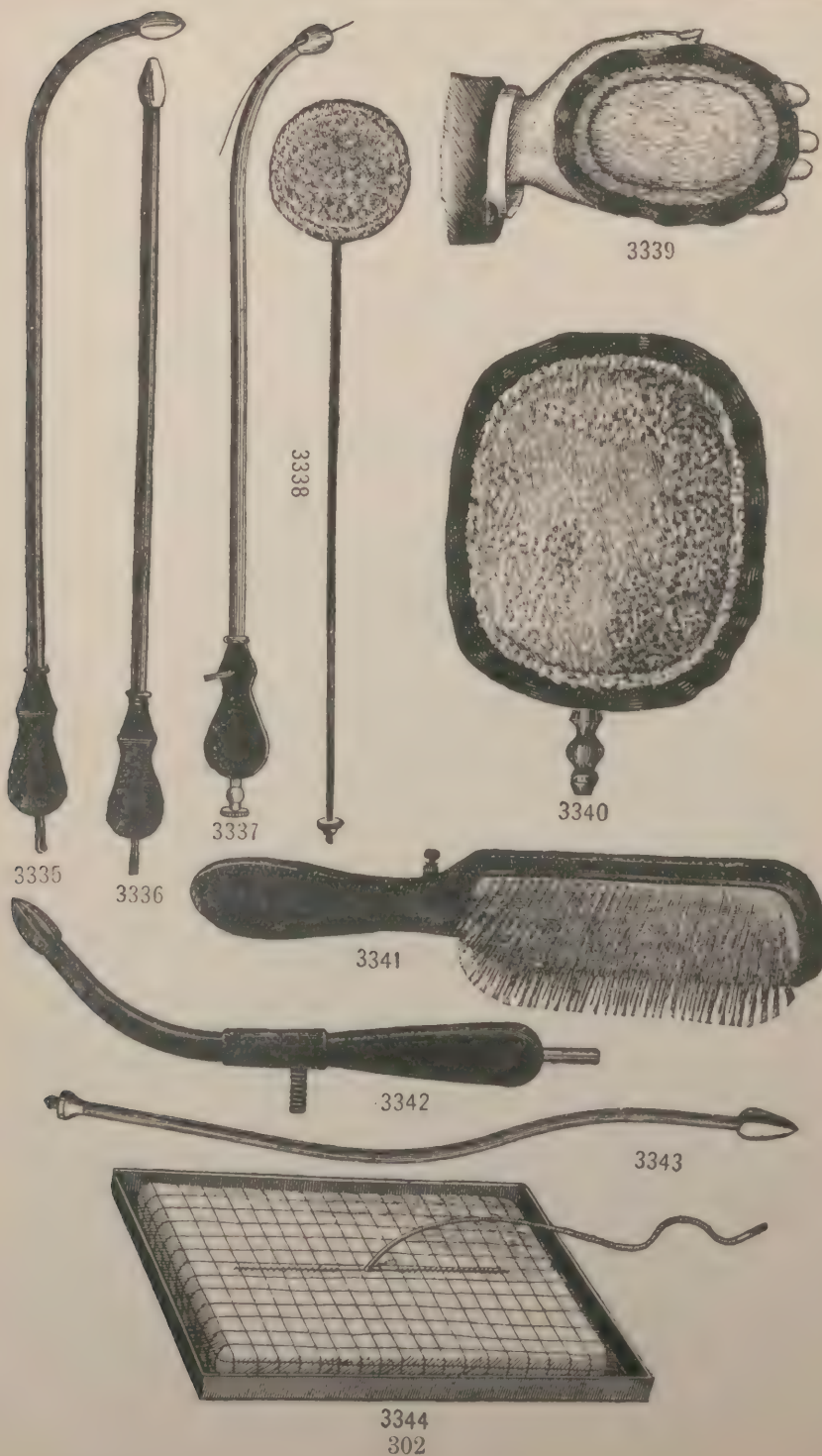


## ELECTRICAL APPARATUS—Continued.

NO.		ELECTRODES—CONTINUED.			PRICE.
<b>3311.</b>	2	x 3,	Flexible Gauze Electrode,		\$0 40
<b>3312.</b>	1½	x 8,	" " "		60
<b>3313.</b>	3	x 4,	" " "		50
<b>3314.</b>	3	x 5,	" " "		60
<b>3315.</b>	4	x 5,	" " "		65
<b>3316.</b>	5	x 7,	" " "		85
<b>3317.</b>	6	x 6,	" " "		1 00
<b>3318.</b>	6	x 8,	" " "		1 20
<b>3319.</b>	6	x 12,	" " "		1 25
<b>3320.</b>	8	x 12,	" " "		1 60
<b>3321.</b>	Goelet's Clay Vaginal Electrode,				2 00
<b>3322.</b>	Uterine Electrode, with 3 stems,				3 00
<b>3323.</b>	" " " removable carbon tip, to be covered with clay for currents of high intensity,				3 00
<b>3324.</b>	Sponge-covered Discs,				per pair 1 00
<b>3325.</b>	Universal Handles,				" 75
<b>3326.</b>	Needle-holder, with interrupter,				2 00
<b>3327.</b>	Needle for Electrolysis, steel,				05
<b>3328.</b>	" " " platinum,				60
<b>3329.</b>	Insulated Platinum-pointed Needle, trocar point,				5 35
<b>3330.</b>	" " " spear " "				5 35
<b>3331.</b>	" " " curved or straight point,				5 35
<b>3332.</b>	Steel-pointed Needle, trocar point,				2 00
<b>3333.</b>	" " " spear " "				2 00
<b>3334.</b>	" " " curved or straight point,				2 00
<b>3335.</b>	Newman's Urethral Sounds, numbers 11 to 28, curved,				each 2 00
<b>3336.</b>	" " " " 11 " 28, straight,				" 1 50
<b>3337.</b>	" Tunneled Catheter Electrode,				5 00
<b>3338.</b>	Long Stem Spinal Electrode,				2 00
<b>3339.</b>	Flexible " "				1 50
<b>3340.</b>	Sponge-covered Foot " "				2 00
<b>3341.</b>	Hair Brush " "				2 00
<b>3342.</b>	King's Rectal " arranged so that a solution of chlo- ride of sodium can be used, the current being distributed by the solution, used for constipation or paralysis of rectum,				5 35
<b>3343.</b>	Rectal Electrode,				1 50
<b>3344.</b>	Apostoli's Abdominal Clay Electrode, with tray,				3 00

**25 per cent. discount to Physicians.**

The boldface numbers represent instruments illustrated.



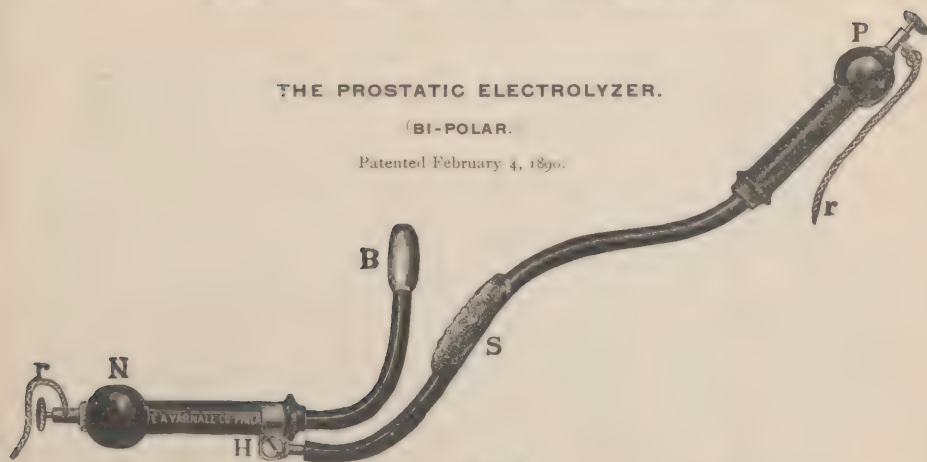


## ELECTRICAL APPARATUS—Continued.

## THE PROSTATIC ELECTROLYZER.

BI-POLAR.

Patented February 4, 1890.



No. 3360.

ONE-THIRD ACTUAL SIZE.

NO.		PRICE.
3360.	Prostatic Electrolyzer, . . . . .	net \$10 00
3361.	“ “ with battery and reophores, complete, “	15 00

The instrument is for use in reduction of hypertrophy of the prostate by means of the galvanic current from the negative pole. The usual flexible reophores, *r, r*, are attached to the terminal binding-posts, the negative pole of the battery being associated with the handle *N* and the positive pole with the handle *P*. The reophores having been thus previously fastened, the rectal limb of the instrument (which has a movement in the vertical plane) is pressed down toward the sponge-covered moistened pole, *S*, the olive-shaped bulb-pole, *B*, having been previously slightly oiled. The instrument is then, with the handle *N* held in the rear, passed under the crotch. The current of the battery is supposed to have been previously set flowing. Grasping, then, the rear handle *N* with the right hand, and allowing the front handle *P* to fall away from the crotch, the patient now presses the olive-shaped bulb, *B*, gently into the rectum, any slight error of judgment as to direction being compensated for by the movement of that limb in the vertical plane. The patient then grasps the front handle, *P*, and raises the lever formed by the hinge, *H*, thus bringing the moistened sponge-covered positive pole, *S*, in contact with the perinæum. By exercising more or less pressure with this pole against the perinæum, the current is then regulated to the greatest nicety by the patient's sensations.

The resistance to the current varies from 2500 to 3000 ohms, the milliamperemeter indicating from 2 to 3 milliamperes, the duration of administration being, according to Dr. Shoemaker and other authorities, from 3 to 5 minutes. (See Dr. Shoemaker's paper in *The Times-Register*, January 17, 1891.)

The boldface numbers represent instruments illustrated.

ELECTRICAL APPARATUS—Continued.

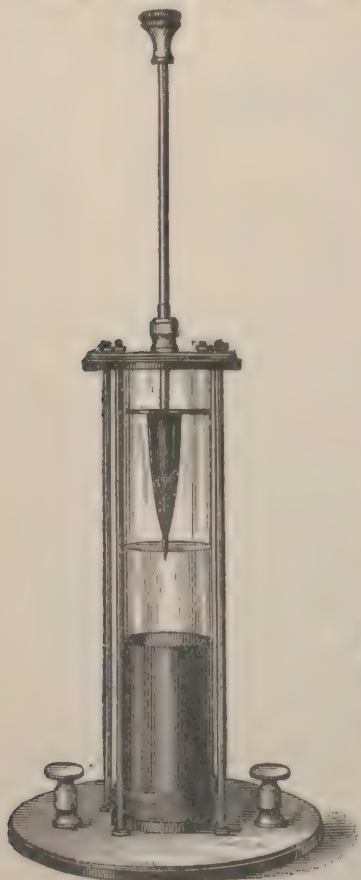
THE CRIADO RHEOSTAT.

NO. 3362. The Criado Rheostat, . . . . . net \$7 50

PRICE.

This instrument will work equally well in circuit with the Edison incandescent current or with any number of cells connected in series. The construction

of this instrument is very simple. A cup of pure carbon fastened in the bottom forms one of the terminals, the other terminal being a tapering carbon rod fastened to a metal rod, and which may be gradually raised and lowered by means of a coarse-threaded screw. There are no wires to get loose, and all danger of shock is avoided. The glass should be filled with water until it touches the small sponge on the end of the carbon rod when raised to the top.



No. 3362.

MASSEY'S CURRENT CONTROLLER.



No. 3363.

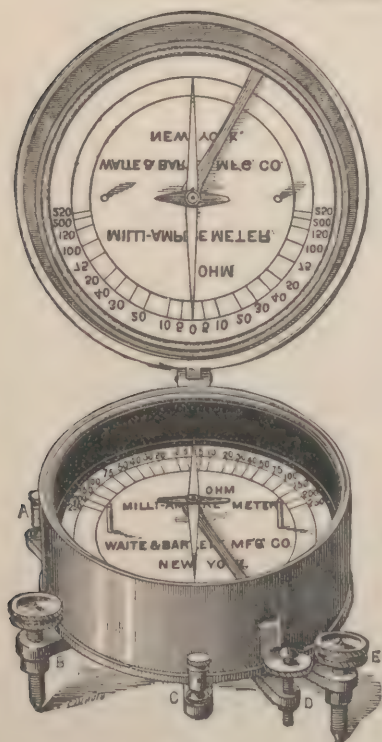
3363. Massey's Current Controller, . . . . . net \$10 00

This consists of a porcelain plate, provided with a tapering area of soft pencil mark, broadening and thickening up to the point at which the graphite, now covered with nickel plating, is connected with the circuit by means of a broad spring contact. This area acts as a resisting material, over which a brass contact attached to a crank can be made to pass. When the crank is placed to the right of the hard-rubber bridge, the contact rests entirely on the porcelain and the circuit is broken. Moving it slightly in the direction of the arrow, it soon touches the graphite mark, and permits the least amount of current to pass through.

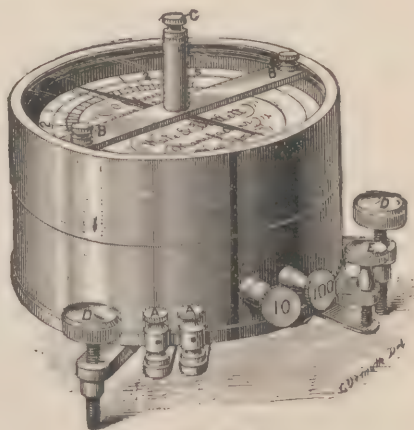
The boldface numbers represent instruments illustrated.

## ELECTRICAL APPARATUS—Continued.

## MILLIAMPERE METERS.



No. 3365.



No. 3366.

- | NO.   | PRICE.      |
|---|-------------|
| 3365. Milliamperemeter, all-metal case, . . . . .                         | net \$15 00 |
| Reflecting Mirror for same, \$1.00 extra, net.                            |             |
| 3366. Milliamperemeter, all-metal case; measures from 0 to 500, . . . . . | net 24 00   |

## DIRECTIONS FOR USE OF MILLIAMPERE METER.

Attach the conductors to the two binding posts. Loosen the milled screw which depresses the lever underneath the instrument till the lever rises up against the support through which the screw passes. This will allow the aluminum needle or pointer to fall away from the brass cross-bar and post, to which it is attached, to a position midway between the cross-bar and the dial of the instrument, where it will remain suspended.

Adjust the three leveling screws till the instrument is perfectly level and the needle swings freely, and, at the same time, place the meter in a position which will allow the pointer to hang directly over the O, or zero mark, after it (the needle) has taken a definite direction in regard to north and south poles.

To measure currents not stronger than 50 milliamperes, see that the shunt screw, inserted through the side of the instrument, is unscrewed, so that the concealed end is not in contact with connection inside of case: this can be determined by turning the screw in carefully until it goes no further and then unscrewing it a short distance, say  $\frac{1}{8}$  of an inch.

With the shunt screw loose, as aforesaid, the readings of the instrument go to 50 milliamperes only, as indicated by the dial. Should it, however,

The boldface numbers represent instruments illustrated.



ELECTRICAL APPARATUS—Continued.

become necessary to use a current of a higher strength than 50, the shunt-screw must be screwed in as far as it will go. This operation, automatically, throws in resistance which increases the value of the readings ten times; thus, the division which has heretofore read as 5 will now mean 50, 10 will mean 100, 20 will mean 200, and so on to 50, which will now be read as 500.

The needle, with aluminum pointer attached, is suspended by fibre from top of tubular post. In case of the fibre being accidentally broken, remove the two milled screws at the end of the cross-bar, take out the latter, and remove the aluminum pointer. Attach a new piece of fibre to the small ring on the top of pointer, pass it up through the tubular post, from which the cap shall have been previously removed, and secure it on the top of the post by means of the small screw arranged for the purpose. Replace all in position, being sure that the blackened end of the pointer lies toward the side of the dial having the divisions marked on it. The needle should hang about half way between the dial and the cross-bar.

When moving the instrument about, the screw which secures the lever should be screwed down tight, that the weight of the needle cannot break the fibre.



No. 3367.

NO.	PRICE.
3367. McIntosh Milliamperere Meter, . . . . .	net \$20 00

DIRECTIONS FOR USING THE INSTRUMENT.

1. Release the indicator by sliding the button D to right.
2. Turn the instrument so that the indicator points due east and west; when it rests at 0, adjust the leveling screws until it is perfectly horizontal.
3. *To use the long scale:* Connect the positive pole of the battery with the binding-post C and the patient with post A by means of a conducting cord and electrode. The patient is also connected directly with the negative pole of the battery as usual.

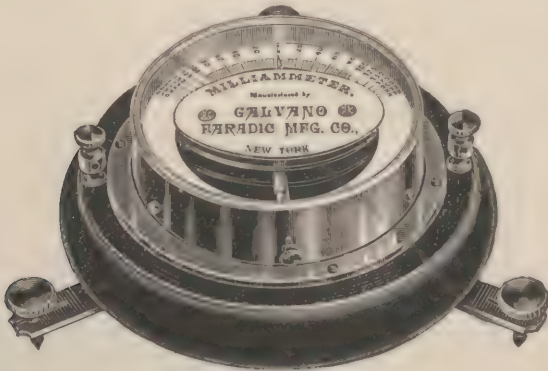
The boldface numbers represent instruments illustrated.



ELECTRICAL APPARATUS—Continued.

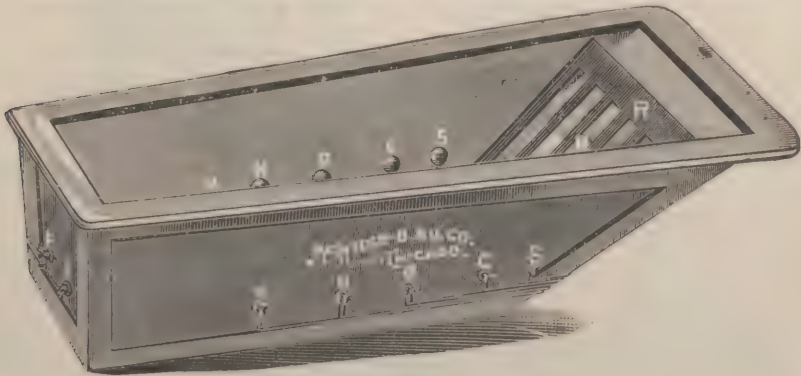
- NO. **3368.** Galvano-Faradic Milliampere Meter; a desirable form of meter, measuring from 1 to 250 milliamperes, . . . . . net \$15 00

PRICE.



No. 3368.

ELECTRIC BATH TUB (WOOD) WITH STATIONARY ELECTRODES.



No. 3370.

- 3370.** Wooden Tub complete, with electrodes and connections all ready to attach to any suitable battery or apparatus, . . . . . net 45 00  
**3371.** Soapstone Tub, complete as above, . . . . . " 70 00

The tub is usually made 6 feet 4 inches long, 4 feet 6 inches on the bottom, 16 inches wide at the foot, and 21 inches at the head, with a slight taper toward the bottom. The tub electrodes are highly finished and nickel-plated.

- 3374.** McIntosh Electric Chair, . . . . . \$90 00

Our chair for giving electric treatment is complete in all its arrangements and presents a very attractive appearance, the chair being made of walnut, handsomely finished, and the electrodes and attachments of metal, heavily nickel-plated. Any make of battery can be used, and by means of the switch-

The boldface numbers represent instruments illustrated.

**ELECTRICAL APPARATUS—Continued.**

board on the back the current can be passed through any part of the body desired or in any direction, the buttons in the switch connecting with the electrodes for neck, back, seat, right and left hand, right and left foot, and two extra binding-posts on arms of chair, so any special electrode can be attached that the operator desires to use. The chair can be raised or lowered, to accommodate the height of the patient. By means of a small wheel, the back electrode can be raised or lowered, and can be turned, to confine the applica-



**No. 3374.**

tion of the current to the spine. The space between the discs on the electrode can be diminished at will, or either one can be removed. The neck electrode can be adjusted to the height of the patient by means of a set screw. The foot-stool can be inverted, and as the inside is lined with metal, it can be filled, if desired, with water, or a dampened sponge or cloth placed in it. The flexible insulated electrode attached to arm of chair, as shown in cut, can be removed, and the other one substituted, and any electrode required can be attached in place of the sponge-covered disc.

*25 per cent. discount to Physicians.*

## ELECTRICAL APPARATUS—Continued.



No. 3380.

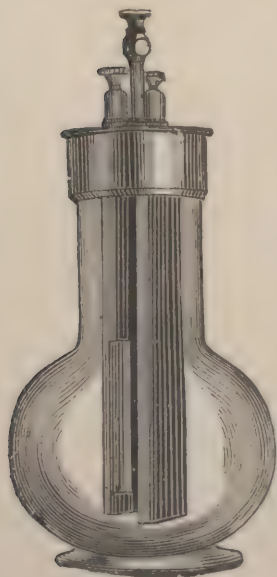
NO.	PRICE.
<b>3380.</b> "Axo" Cell complete,	\$0 75
<b>3381.</b> Genuine "Gonda Porous Cup" Battery, complete, . . . . .	65
<b>3382.</b> Porous Cup alone, . . . . .	50
<b>3383.</b> Glass Jar, . . . . .	15
<b>3384.</b> Zinc, . . . . .	8
<b>3385.</b> Sal-Ammoniac in bag, . . . . .	6



No. 3382.

<b>3388.</b> Grenet Cell, . . . . .	\$2 00
-------------------------------------	--------

This battery occupies but little space, furnishes a large quantity of current, and is especially adapted for experimental purposes, or for running electro-medical batteries, especially those that are now worked with bi-sulphate of mercury. The battery may be kept charged for months, and set in action at any time by simply depressing the nickel-plated rod which slides through the centre of the cover. When not in use, raise the zinc above the fluid by means of the above-mentioned rod.



No. 3388.

<b>3390.</b> Gravity Battery complete, . . . . .	\$0 75
<b>3391.</b> Zinc, . . . . .	35
<b>3392.</b> Copper, . . . . .	15
<b>3393.</b> Glass Jar, . . . . .	30



No. 3390.

## GLOSSARY.

*Anode.* The positive pole of a battery.

*Cathode.* The negative pole of a battery.

*Conductor.* The wire or cord through which the electricity is conveyed from the battery to the patient.

*Constant Battery.* One capable of giving a continuous current with unvarying constancy.

*Continuous Current.* Term applied to the galvanic current in opposition to the electro-magnetic.

The boldface numbers represent instruments illustrated.

**ELECTRICAL APPARATUS—Continued.**

*Current Selector.* A contrivance for bringing any desired number of elements into the circuit.

*Commutator.* An arrangement for reversing the current.

*Electrode.* An instrument for the application of electricity.

*Electrometer.* An instrument by which the force of an electric current is measured.

*Element.* Couple, pair or cell.

*Electrolysis.* Electro-chemical decomposition.

*Electroscope.* Same as galvanoscope.

*Faradic Current.* The induced current. The term is applied both to the electro-magnetic and magneto-electric currents, since they were both discovered by Faraday, called also secondary, interrupted, induced, inductive, to and fro, indirect, electro-magnetic, and magneto-electric: the term Faradic is more universally used.

*Faradization.* The use of the Faradic current.

*Galvanoscope* (Galvanometer). An instrument by which we detect small quantities of electricity, and distinguish between negative and positive.

*Hydrostat.* An arrangement to prevent accidental escape of battery fluid from the cells.

*Interrupted Current.* Broken, intermitted. The Faradic is necessarily interrupted by the apparatus that generates it; the galvanic may be continuous or interrupted.

*Insulator.* A poor conductor of electricity.

*Insulated.* Placed on non-conducting supports, or covered with non-conducting substances.

*Labile Current.* An application in which one or both the electrodes are moved or glided over the surface.

*Magnets.* Substances that have the property of attracting iron.

*Negative Pole.* Where the current passes out, called also zinc-pole or cathode.

*Non-conductors.* Glass, resin, vulcanite, and all substances that do not transmit electricity freely are thus called.

*Poles.* Points where magnetism is concentrated, or where the electric current passes in and out.

*Primary or Inducing Current.* The current that passes through the inner coil of wire in a helix, and that induces a current on the coil that surrounds it. Used erroneously as synonymous with galvanic or constant current.

*Rheostat.* An instrument for controlling the intensity of the galvanic current.

*Rheotome.* A current breaker.

*Rheotrope.* Current reverser.

*Secondary Current.* That which is supplied by the outer coil of the electro-magnetic machine.

*Static Electricity.* Electricity generated by friction.



MICROSCOPES.

ZENTMAYER'S AMERICAN HISTOLOGICAL STAND.

(Patented 1876.)



**No. 3400.**

ONE-THIRD ACTUAL SIZE.

The Histological Stand, which has found so much favor among our practical microscopists, has lately undergone a thorough reconstruction, and the many improvements adopted adapt it to the most advanced work that modern microscopists require.

The diameters of the body eye-piece and sub-stage are enlarged to that of the size of the Army Hospital Stand. The mirror is larger and is provided with a lengthening bar, to give ample room for the convenient use of our Abbe's condenser. The base is larger and heavier, giving great stability to the stand.

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## MICROSCOPES—Continued.

### ZENTMAYER'S.

The entire instrument is made of brass. The base and uprights are one piece, of a peculiar shape, of great rigidity, to which the bell-metal bar is attached by a joint, allowing the use of the instrument in any angle of inclination; perpendicular and horizontal positions are indicated by stops. The coarse adjustment is accomplished by rack and pinion; the tube is five and one-half inches long, capable of elongation to the standard length.

The fine adjustment is of the same style as the one of the American Centennial Stand. A concealed lever is acted upon by a micrometer screw and moves the entire body, which is fitted to the grooved bar, giving a steady and delicate movement. The arrangement of the swinging sub-stage and mirrors is the same as in the United States Army Hospital Stand. The removable sub-stage carries the diaphragms, which can be shifted up close to the object.

The stage has a carriage similar to that on Centennial Stand, and gives exceedingly smooth and firm movement, and a freedom of motion not obtained by any other arrangement.

If desired, we furnish a centering, revolving glass stage, similar to the one on the Army Hospital Stand, at an addition of \$12.00.

A sub-stage moved by rack and pinion can be added to facilitate the adjustment of the accessories, especially the use of the Abbe condenser, at an addition of \$9.00.

NO.	AMERICAN HISTOLOGICAL STAND, WITH FOLLOWING ACCESSORIES.	PRICE.
<b>3400.</b>	American Histological Stand, with one eye-piece (A or B). $\frac{8}{16}$ objective, $24^\circ$ angular aperture, $\frac{1}{8}$ objective, $75^\circ$ angular aperture, which easily resolves <i>P. angulatum</i> ; in neat walnut case, with lock and handle, . . . . .	\$65 00
3401.	American Histological Stand, same as No. 3400, but with binocular attachment and 1 pair of eye-pieces, . . . . .	87 00
3402.	American Histological Stand, with rack-and-pinion coarse adjustment, 1 eye-piece; in walnut case, . . . . .	45 00
3403.	American Histological Stand, binocular, with 1 pair of eye-pieces; in walnut case, . . . . .	67 00

### ACCESSORIES FOR HISTOLOGICAL STAND.

3405.	Extra Eye-piece, . . . . .	6 00
3406.	Polarizer complete, with 1 selenite, . . . . .	12 00
3407.	Selenite, . . . . .	1 00
3408.	Neutral Tint Camera, . . . . .	3 00
3409.	Stage Micrometer, 100-1000, . . . . .	1 00
3410.	Eye-piece Micrometer (disc), . . . . .	2 00
3411.	Hemispherical Spot Lens, . . . . .	4 00
3412.	Adapter for using Objective as Achromatic Condenser, . . . . .	1 00
3413.	Stage Forceps, . . . . .	1 75
3414.	Animalcule Cage, . . . . .	2 00

The boldface numbers represent instruments illustrated.

**MICROSCOPES—Continued.**

**ZENTMAYER'S.**

ACCESSORIES FOR HISTOLOGICAL STAND—CONTINUED.		PRICE.
NO.		
3415.	Double Nose-piece (angular), . . . . .	\$6 00
3416.	Glass Sliding Stage, with spring and ivory-pointed screw, complete, . . . . .	4 50
3417.	Rotating Stage plate, with clips, . . . . .	2 00
3418.	Woodward Prisms, mounted, . . . . .	4 00

**HISTOLOGICAL OBJECTIVES.**

3419.	2-inch, angular aperture, 12°, . . . . .	8 00
3420.	1 " " " 19°, . . . . .	6 00
3421.	$\frac{8}{10}$ " " " 26°, . . . . .	8 00
3422.	$\frac{1}{8}$ " " " 75°, . . . . .	12 00
3423.	$\frac{1}{10}$ " " " 140°, immersion, . . . . .	22 00

**ZENTMAYER'S AMERICAN STUDENT STAND.**

(Patented 1876.)



**No. 3427.**

ONE-THIRD ACTUAL SIZE.

The boldface numbers represent instruments illustrated.

## MICROSCOPES—Continued.

ZENTMAYER'S.

NO.		PRICE.
<b>3427.</b>	American Student Stand, with 1 eye-piece (A or B), 1-inch objective, $19^{\circ}$ ; $\frac{1}{2}$ inch objective, $75^{\circ}$ ; walnut case, with lock and handle, . . . . .	<b>\$46 00</b>

This instrument was designed and constructed with the view of enabling students to obtain an instrument combining the essential features of a first-class stand, superior optical qualities, and extremely low cost.

The instrument is of brass, with the exception of the base, which is of cast-iron, neatly japanned. The base is of one piece and very rigid, to which the bell-metal bar is attached by a joint, allowing the use of the instrument at any angle of inclination, perpendicular and horizontal positions being indicated by stops.

The coarse adjustment for focus is accomplished by rack and pinion.

The fine adjustment is of the same style as that of the American Centennial Stand. A concealed lever is acted upon by a micrometer screw, and moves the entire body, which is fitted to the grooved bar, giving steady and delicate movement.

The plane and concave mirrors are hung in a plane with the object, and may be swung over the stage for illuminating opaque objects (instead of the bull's-eye condenser), having the object as the centre.

The stage is broad and firm, is only three inches from the table, and is provided with delicate spring-clips, which may be removed, if desired.

The diaphragm is circular in form, with a series of different size apertures.

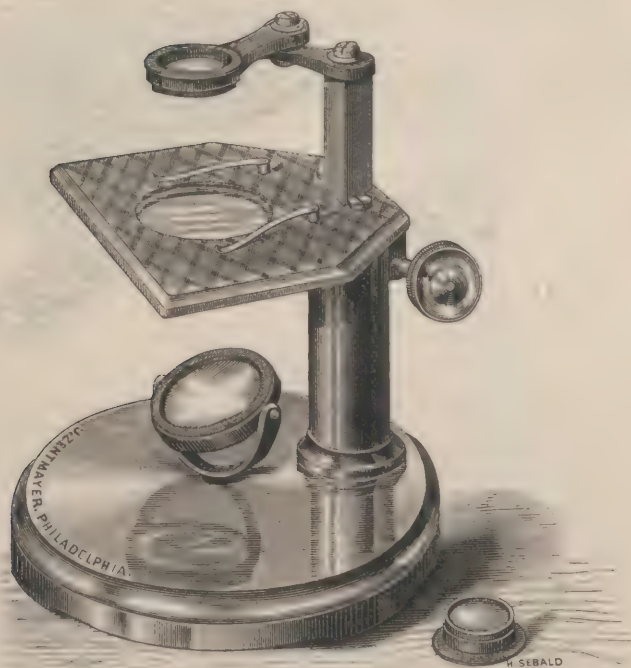
<b>3428.</b>	American Student Stand, with 1 eye-piece, in walnut case, with lock and handle, . . . . .	<b>\$30 00</b>
<b>3429.</b>	American Student Stand, with 1 eye-piece (A or B); $\frac{3}{16}$ inch objective of $19^{\circ}$ ; $\frac{1}{2}$ inch objective of $75^{\circ}$ ; walnut case, with lock and handle, . . . . .	<b>38 00</b>
<b>3430.</b>	American Student Stand, with 1 eye-piece: walnut case, with lock and handle, . . . . .	<b>22 00</b>
	Extra eye-piece for student stand, . . . . .	<b>5 00</b>

This stand is the same as No. 3427, except that the coarse adjustment is accomplished by sliding the body tube in a cloth-lined outside tube, which gives an exceedingly smooth and delicate movement.

The boldface numbers represent instruments illustrated.



MICROSCOPES—Continued.  
ZENTMAYER'S.



No. 3435.

ONE-HALF ACTUAL SIZE.

- | NO.          |  | PRICE.  |
|--------------|--|---------|
| <b>3435.</b> | Zentmayer's Botanical Dissecting Microscope ; plane mirror, with complete adjustments ; two single lenses of one inch and three-quarter inch focus, which may be combined to form a two-third inch ; packed in a neat walnut case, with drawer and handle, . | \$12 00 |

This instrument was designed and constructed to meet the requirements of Professor J. T. Rothrock, of the University of Pennsylvania, in his botanical class. It consists of a circular base five inches in diameter, to which is fastened a stout pillar that carries the broad stage, four by five inches square ; the stage is provided with spring clips, which can be removed and a glass plate one and three-quarter inches in diameter fitted to the well of the stage. The jointed arm carrying the lenses is moved by rack and pinion.

- |              |  |        |
|--------------|--|--------|
| <b>3436.</b> | Zentmayer's Botanical Dissecting Microscope, . . . . . | \$8 00 |
|--------------|--|--------|

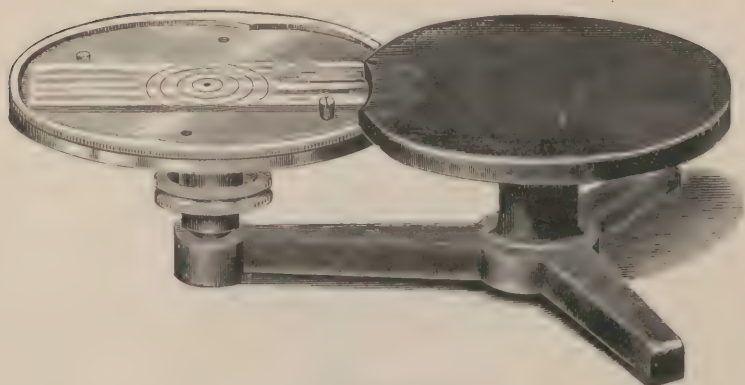
This instrument is the same as No. 3435, except that a single-jointed arm, carrying the lens, is moved by a sliding movement, giving splendid movement.

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

## MICROSCOPES—Continued.

ZENTMAYER'S.



No. 3440.

NO.	PRICE.
3440. Zentmayer's Centering Turn-table, . . . . .	\$5 00

The slide is laid on the table with its opposite edges touching two pins, which are planted equally distant from the centre; this centres the slide in one direction. By turning the ring fitted to the periphery of the table, the inner edge of the ring, which is oval, will centre and clamp the slide in its longitudinal direction. The ring can be easily taken off, and clips are furnished to refinish uncentered objects.

3441. Zentmayer's Turn-table, . . . . .	\$3 50
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The slide is centered as above by two pins and rings marked on the table.



The microscopes exhibited by Joseph Zentmayer at the International Exhibition, at Philadelphia, 1876, were recommended to the United States Centennial Commission for award.

Complete catalogue of microscopes on application.

The boldface numbers represent instruments illustrated.

MICROSCOPES—Continued.

HICKS'.



No. 3450.



No. 3451.

NO.		PRICE.
<b>3450.</b>	"English Model." contains 1 eye-piece, 3 dividing objectives, 1-inch, $\frac{1}{2}$ -inch, and $\frac{1}{4}$ -inch, with condenser on stand, . . .	\$35 00
<b>3451.</b>	"Comet." contains 2 capped eye-pieces, 2 objectives, 1-inch and $1\frac{1}{2}$ -inch, Abbe model illuminator, . . .	75 00

The boldface numbers represent instruments illustrated.

MICROSCOPES—Continued.

HICKS'.



No. 3452.

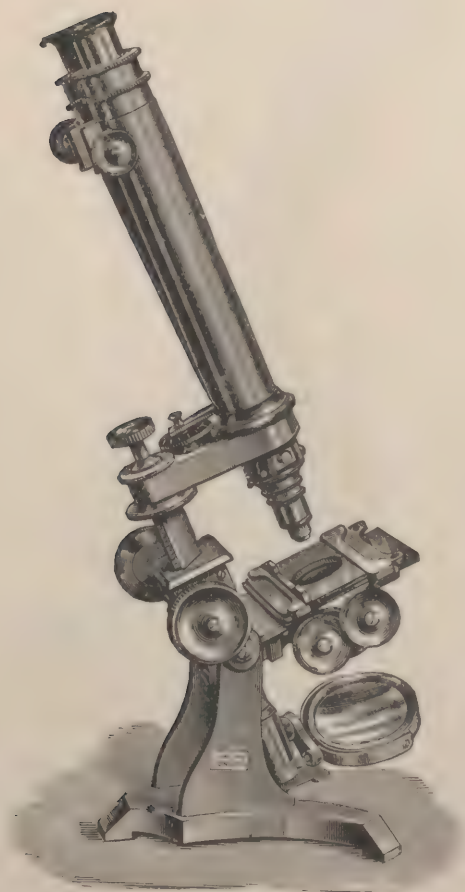
NO.		PRICE.
<b>3452.</b>	"Victor," contains 2 eye-pieces, 2 objectives, 1-inch and 1½-inch, Abbe model substage illuminator, condenser on stand, life cage, and forceps, . . . . .	<b>\$160 00</b>

The boldface numbers represent instruments illustrated.



MICROSCOPES—Continued.

HICKS'.



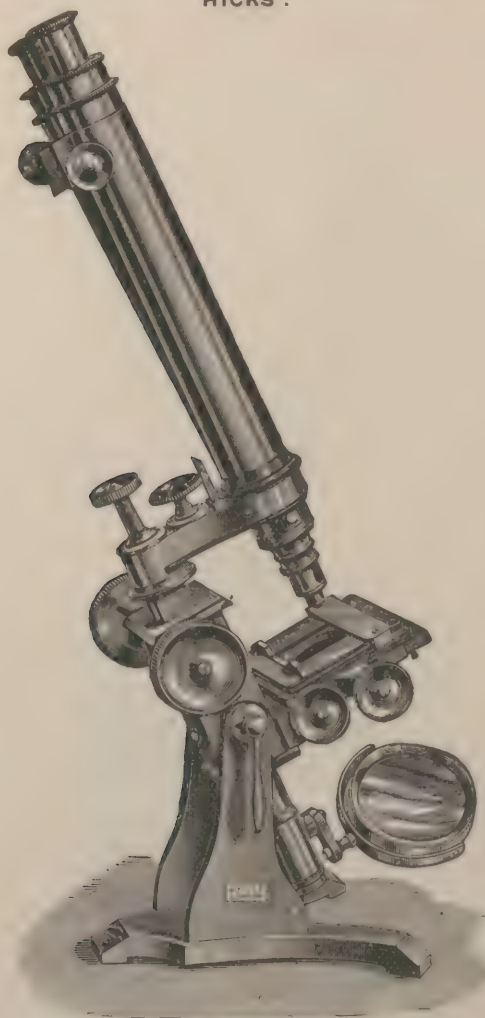
No. 3453.

NO.	PRICE.
<b>3453.</b> "Medical," contains glass rotating stage, 2 capped eye-pieces, 2 objectives, 1-inch and $\frac{1}{8}$ -inch, condenser, life cage, and forceps, . . . . .	\$150 00

The boldface numbers represent instruments illustrated.

MICROSCOPES—Continued.

HICKS'.



No. 3454.

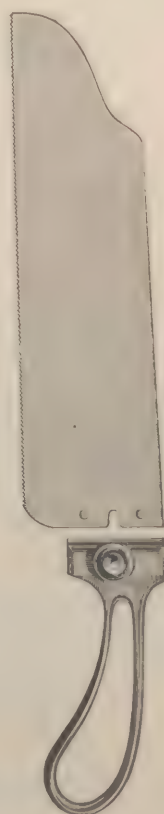
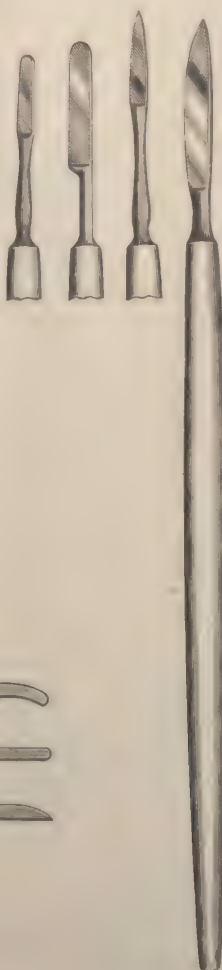
- |              |   |          |
|--------------|---|----------|
| NO.          |   | PRICE.   |
| <b>3454.</b> | <p>“Binocular,” contains 5 eye-pieces, 2 A, 2 B, and 1 C, finest quality achromatic objectives, 2-inch, 1-inch, and <math>\frac{1}{4}</math>-inch, 1 micrometer eye-piece, stage micrometer, polarizer apparatus, with rotating analyzing prism in box, revolving selenite stage, spot lens, large condenser on stand, stage condenser, silver side reflector, best camera lucida, with shades (Wollaston), reversible compressor, frog plate, 2 live boxes, 2 pairs best bottle pliers, 2 glass plates for stage, and set of dipping tubes; in morocco case, . . . . .</p> | \$225 00 |

The boldface numbers represent instruments illustrated.

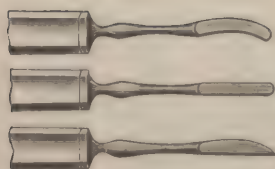
## APPENDIX.



NO.	PRICE.
30. Costotome or Rib Shears, Henckel's patent,	\$5 50
95 1/2. Set of 3 Tenotomes, in case, Allis', . .	4 00
96 1/2. " 7 " " Wilson's, .	8 00
108. Amputating Saw, detachable handle, . .	2 75



**No. 96 1/2.**

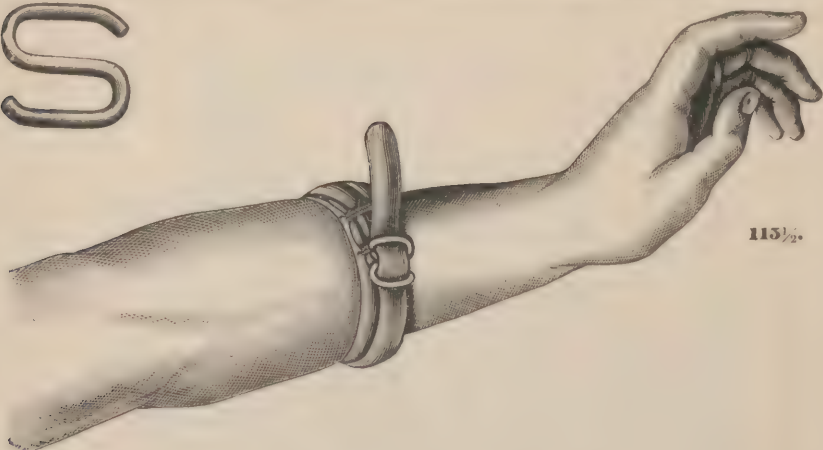


**No. 95 1/2.**

**No. 108.**

The boldface numbers represent instruments illustrated.

S



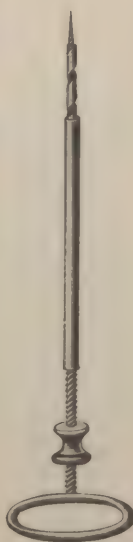
115½.



150½.



155½.



164½.



168½.



177½.



178½.

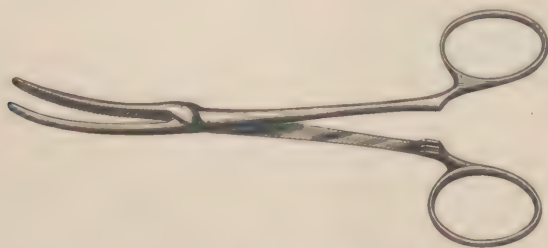


210.

322



NO.		PRICE.
115½.	Tourniquet, with tubing, Wilson's, . . . . .	\$0 65
150½.	Bone-Grasping Forceps, Wilson's, . . . . .	2 00
154½.	Nail-Extracting Forceps, Post's, . . . . .	2 25
155½.	Retractor, Deaver's, with guarded prongs, . . . . .	2 50
164½.	Bone Drill, Gaillard's, for ununited fracture, . . . . .	1 90
166½.	" " Marsee's Aseptic, . . . . .	5 00
168½.	Bone Chisels, 3 sizes, Macewen's, . . . . . each	2 50
177½.	Dry Dissector, Allis', . . . . .	75
178½.	Irrigating Curette, Willard's, . . . . .	3 00
210.	Aseptic Spring Forceps, 5 inch, . . . . .	1 25
212.	Hæmostatic Forceps, Collins', . . . . .	1 50



No. 212.

**370. Johnson's Aseptic Pocket Case.**

This Case, as suggested by Prof. Robt. W. Johnson, of the Baltimore Medical College, is very compact, thoroughly aseptic, and contains the following instruments:

1 Scalpel, 1 Tenotome, 1 Curved Bistoury, probe point; 1 Curved Bistoury, sharp point; 1 Finger Saw, 1 Tenaculum, 1 Combined Male and Female Catheter and Exploring Needle, 1 Combined Artery and

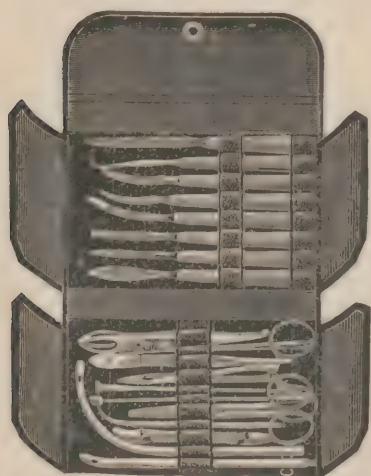


No. 370.

Needle Forceps, 1 Dressing Forceps, 1 Hæmostatic Forceps, 1 Scissors, 1 Gross' Ear Scoop and Hook, 1 Director and Tongue Tie, 1 pair Probes, 1 Hard Rubber Tube containing Antiseptic Tablets, Needles, Silk, and Gutta Percha Tissue; in a strong, red leather case, compact, easily carried, and very durable, . . . . .

12 50

The boldface numbers represent instruments illustrated.



No. 371.

NO. 371. Chambers' Aseptic Pocket Case.

PRICE.

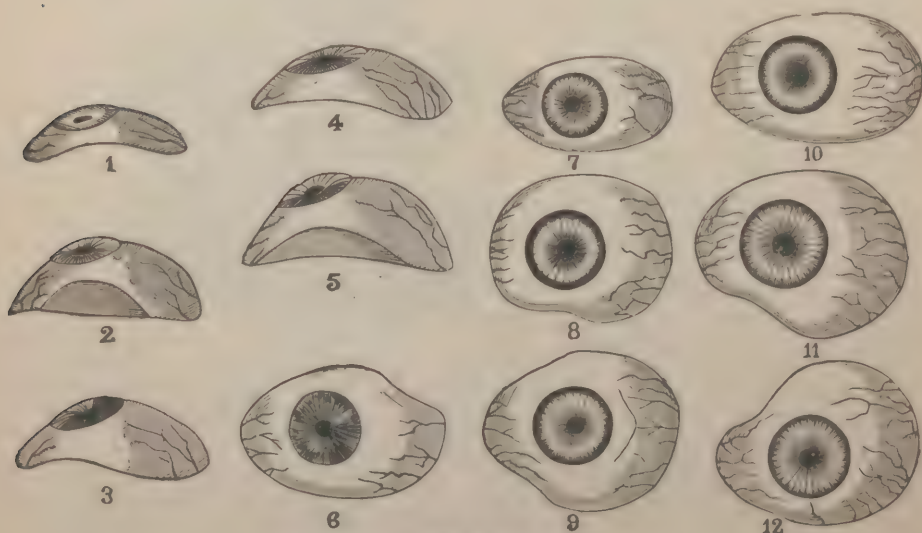
Contains the instruments as approved by Prof. J. W. Chambers, College of Physicians and Surgeons, Baltimore, viz.:

1 Scalpel, 1 Straight Bistoury, 1 Curved Bistoury, sharp point; 1 Curved Bistoury, probe point; 1 Tenotome, 1 Hernia Knife, 1 Finger Saw, 1 Tena- culum, 1 Combined Artery Forceps and Needle-holder, 1 Dressing Forceps, 1 Hæmo- static Forceps, 1 Exploring Trocar, 1 Nelaton's Probe, 1 Straight Scissors, 1 Combined Male and Female Catheter,

1 Director and Aneurism Hook, 2 Langenbeck's Serre Fines, 1 pair Probes, Needles and Silk. All these instruments are thor- oughly aseptic, and are contained in a fine, flexible leather case,

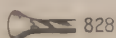
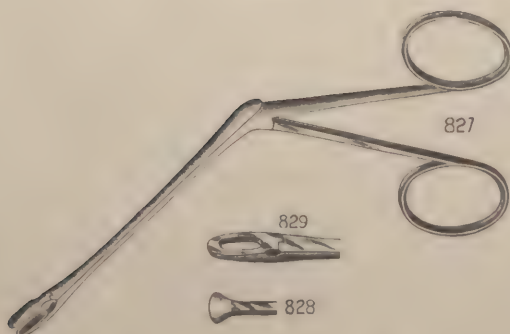
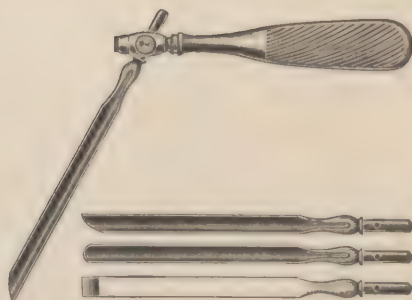
which will be found much more convenient to carry than the stiff, bulky cases usually furnished, . . . . . \$14 00

- |  |      |
|--|------|
| 456. Pterygium Divulsion Hook, Prince's, . . . . . | 1 25 |
| 459. Capsule Forceps, Knapp's, . . . . .           | 3 75 |
| 529. Eye Speculum, Knapp's, latest, . . . . .      | 4 00 |



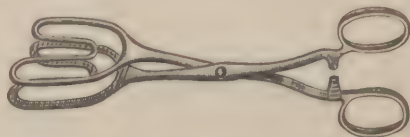
No. 579.

The boldface numbers represent instruments illustrated.



C. H. GOLDTHWAITE & CO..

NO.		PRICE.
579.	Artificial Eyes, . . . . . each	\$5 00
	In ordering Artificial Eyes the following should be answered : If for right or left eye. If eyeball has collapsed or been removed. Is the sound eye prominent? Is the eyeball a clear white or tinged? Color of iris. Diameter of iris. Diameter of pupil. Distance from inner to outer canthus.	
616.	Eyelet Forceps, Politzer's, . . . . .	1 25
626½.	Angular Ear Hook, . . . . .	65
648.	Ear Spout, Brown's, with tubing, . . . . .	65
729.	Ellsberg's Nasal Speculum, trivalve, steel, . . . . .	3 75
803.	Light Angular Polypus Forceps, Caughtry's, . . . . .	6 00
807.	Set of Chisels and Gouges, with set screw handle, Seiler's, . . . .	4 50
808.	Nasal Cutting Forceps, with serrated jaws and pins, Teets', . . . .	4 75
809.	“ “ “ with plain jaws, “ . . . .	4 50
814½.	Septum Knife, Ingall's, . . . . .	1 25
824.	Septometer, Seiler's, . . . . .	4 50
825.	Septum Forceps, Jarvis', . . . . .	6 00
826.	Post-Nasal Curette, aseptic, Gottstein's, . . . . .	2 75
827.	Nasal Cutting Forceps, solid blade, Farnham's, . . . . .	5 00
828.	“ “ “ “ “ “ . . . . .	5 00
829.	“ “ “ fenestrated blade, “ . . . . .	6 00



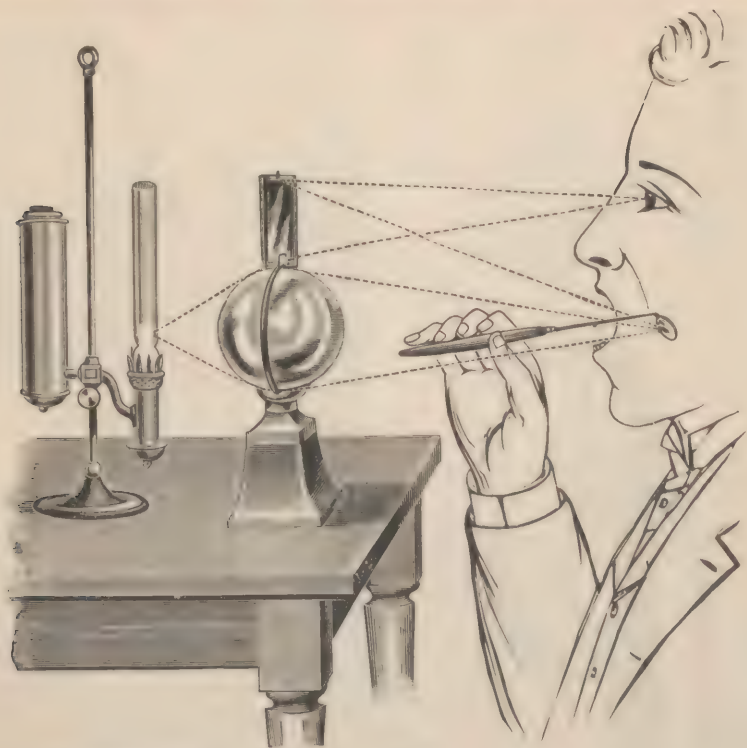
No. 861.

<b>830.</b>	Septum Pins, Roberts', 1½ to 2 inches, . . . . .	each	15
<b>831.</b>	Septum Knife, curved, Seiler's, . . . . .		1 25
<b>849.</b>	Palate Retractor, Pilcher's, . . . . .		3 00
<b>861.</b>	Tongue-Holding Forceps, Houze's, . . . . .		4 50
<b>874.</b>	Auto Laryngoscope, . . . . .		10 00
<b>884.</b>	Head-Band, with nose rest, Schroeter's, . . . . .		1 25
<b>887.</b>	“ “ Sajous', . . . . .		1 50
<b>888.</b>	“ “ Fox's, folding, steel, . . . . .		4 00
<b>898½.</b>	Perfection Student Lamp, . . . . .		4 00
<b>901.</b>	Perfection Light Condenser, . . . . .		3 00
<b>902.</b>	Photophore, . . . . .		25 00
<b>930.</b>	Albolene Atomizer, . . . . .		1 00
<b>954.</b>	Compressed Air Apparatus, with rotary pump attachment, . . .		65 00
<b>962.</b>	Inclined Air Pump, . . . . .		7 50

The Pump is mounted on a cast-iron support, and intended to be fastened to the floor. It is 26 inches high, and the chamber,  $2\frac{1}{8}$  inches diameter, has most excellent valves, thereby greatly increasing its efficiency. The iron support is japanned in black, and the Pump highly polished and nickel-plated.

The boldface numbers represent instruments illustrated.

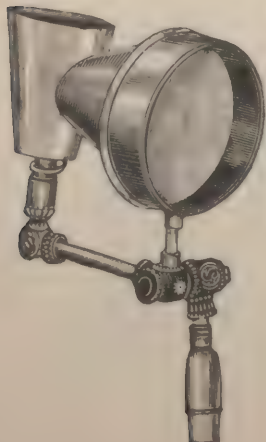




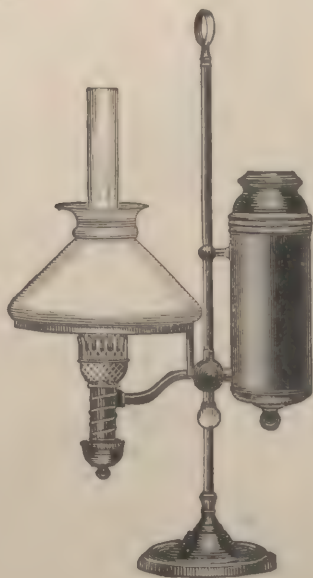
874.



888.



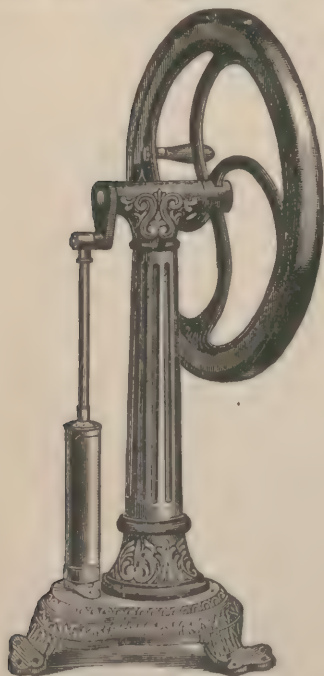
901.



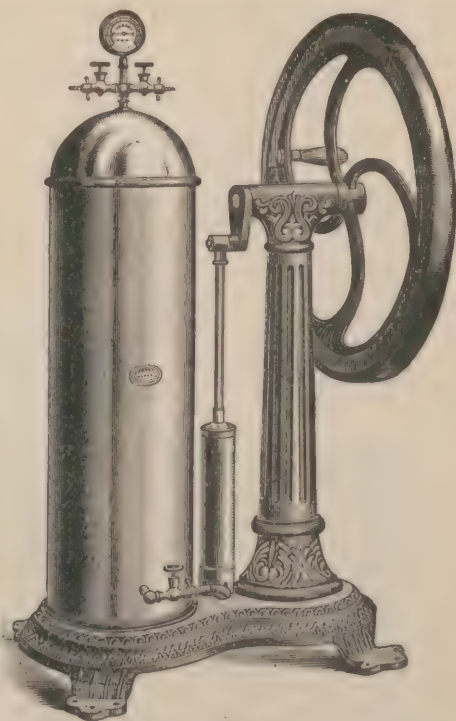
898 1/2.



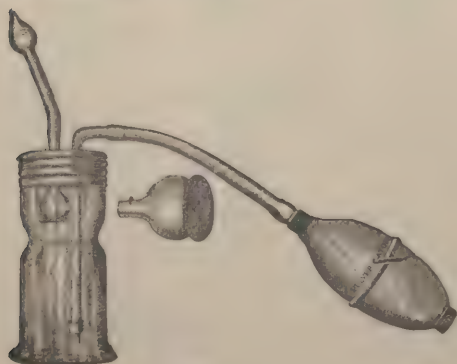
930.



963.



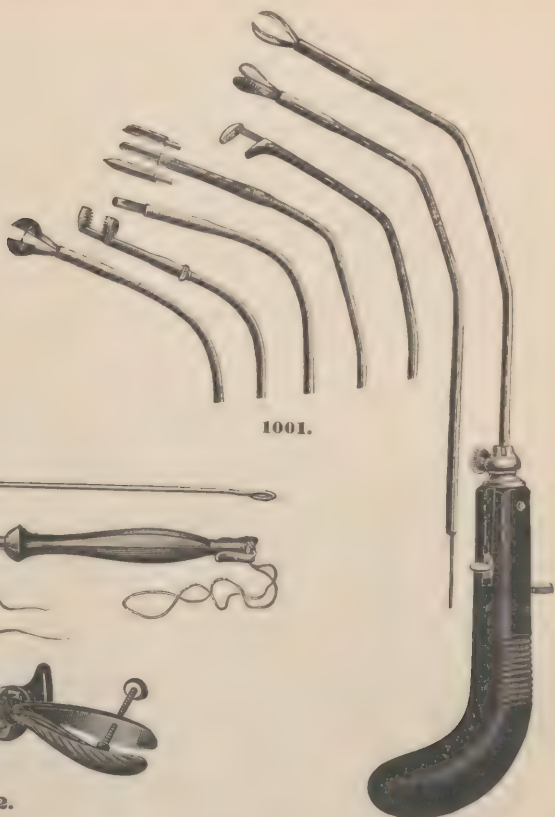
954.



975.

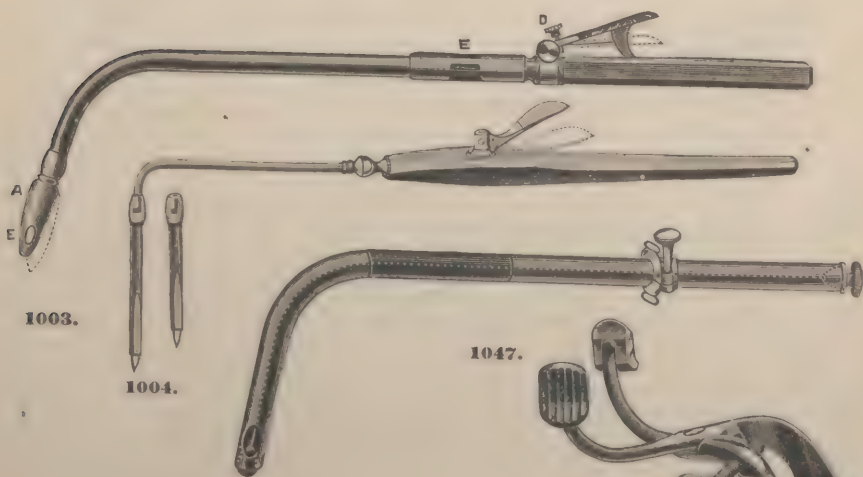


962.



1001.

1002.



1003.

1004.

1047.

# C. H. GOLDTHWAITE & CO.,

NO.	PRICE.
<b>963.</b> New Rotary Pump, . . . . .	\$35 00
The base, column, and fly-wheel are made of iron, japanned in black, and ornamented in gold. The extreme height is 40½ inches, the base is 14 x 18 inches, and the wheel 24 inches in diameter. The Pump is made of brass, highly polished and nickel-plated; it has most excellent valves, thereby greatly increasing its working capacity; the chamber is 2¼ inches in diameter by 7-inch stroke. The whole apparatus is well made and handsomely finished; especially adapted for a physician's office.	
<b>975.</b> Pulverflator, . . . . .	\$1 25
<b>1001.</b> Schrötter's Universal Handle, with 7 tips, . . . . .	25 00
<b>1002.</b> " Metal Bougies, . . . . .	12 00
<b>1003.</b> Browne's Hollow Cutting Dilator, . . . . .	8 00
<b>1004.</b> Mackenzie's Laryngeal Bistoury, . . . . .	9 00
<b>1014.</b> Tonsilotome, Casselberry's, . . . . .	7 50
<b>1047.</b> Maroney's Intubation Set, consisting of 1 Laryngeal Tube and 1 Mouth Gag, in case, . . . . .	8 00
<b>1087½.</b> Soft Rubber Stomach Tube, with bulb and hard funnel, . . . . .	2 00
<b>1090.</b> " " " " with funnel, . . . . .	1 25
<b>1103.</b> Pin Cutting Forceps, . . . . .	1 50
<b>1172.</b> Obstetrical Forceps, Gardner's Axis Traction, . . . . .	18 00
Special attention is called to this instrument. It is constructed upon a sound scientific theory, and according to definite mathematical drawings based upon accurate measurements of the average female pelvis, and meets the requirements of a perfect axis traction forceps at a much less cost than the French patterns. The points of advantage are: (1) They give real axis traction; (2) they do not compress the head; (3) they do not slip off; (4) they allow free internal rotation of the head; (5) they can be kept perfectly clean. Reference is made to an article on the subject by Dr. W. S. Gardner, which appeared in the <i>American Journal of Obstetrics</i> , Vol. XXVI, No. 1, 1892.	
<b>1173.</b> Obstetrical Forceps, Dewees' Axis Traction, . . . . .	\$9 00
<b>1194.</b> " " Reamy's, . . . . .	6 00
<b>1195.</b> " " Knox's, . . . . .	7 00
<b>1196.</b> " " Norris' Mod. of Tarnier's, . . . . .	25 00
<b>1197.</b> " " Poulet's Axis Traction, complete, . . . . .	11 50
<b>1198.</b> Axis Traction Bar, McClintock's, . . . . .	2 00

In view of the increasing favor in the application of axis traction to obstetrical forceps, and the fact that most physicians already have their forceps, we beg to present to your favorable attention the **McCLINTOCK'S AXIS TRACTION BAR**, which can be applied to almost any of the present styles of obstetrical forceps, and by which a perfect axis traction principle can be obtained. The width in the opening between the jaws varies to accommodate the different sizes of the shanks of forceps. In ordering, give the thickness of the shanks of your forceps.

The boldface numbers represent instruments illustrated.





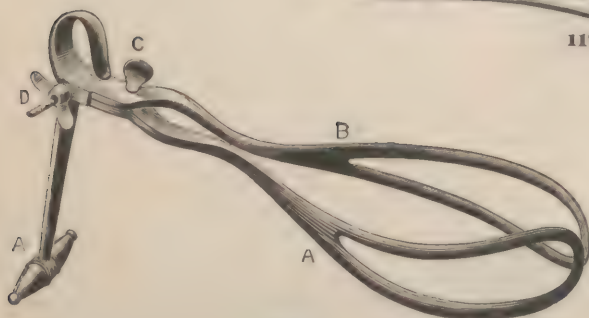
1087 1/2.



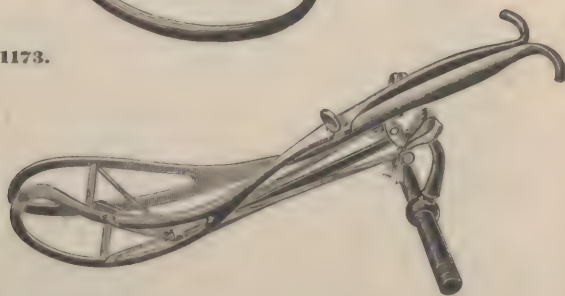
1090.



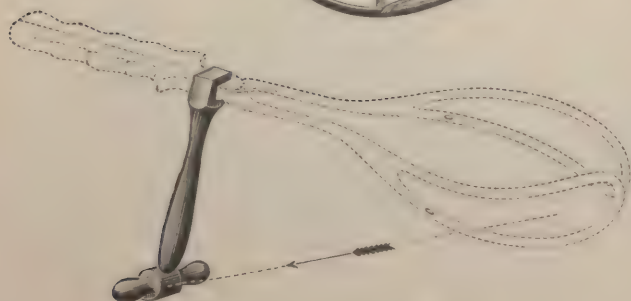
1172.



1173.



1197.



1198.



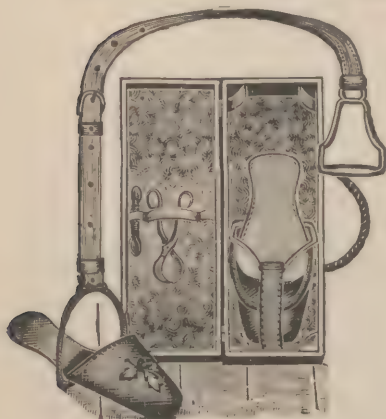
PATENT APPLIED FOR

## SIMPLICITY IS ITS OWN RECOMMENDATION.

We present for the consideration of the profession, a neat, simple, perfect device, which, as every experienced physician sees at a glance, does away with hand-pulling, and all crude, cumbersome makeshifts, and greatly facilitates labor by providing the means for a good "PULL," thus giving a woman measure of comfort during the most trying time of her life.

The SLIPPER was invented by an experienced physician, and is the result of his many contrivances to relieve his patients. It consists of a pair of stout slippers connected by adjustable straps connected to nicked steel handles; they are easily put on and off, are not in the way if left in the bed, and can be used by the patient in any posture. One pair will last a lifetime, and as their utility is apparent, no argument is necessary.

The first engraving shows the Slipper in use, while the second engraving shows the Slippers, in a handsome case, which also has spaces for Catheter, Probe, bottles of Ergot, Ether, Chloroform, etc.



1231.



1246.

# 186 WASHINGTON ST., BOSTON.

NO.	PRICE.
1198½. Axis Traction Hook, Reynolds', . . . . .	\$2 50
1225. Craniotomy Forceps, Budd's, . . . . .	3 75
1231. Obstetric Slippers, Kline's, in case, . . . . .	7 00
“ “ without case, . . . . .	6 00
1232. Obstetrical Scales, . . . . .	50
1246. “ Bag, 16 inches, containing 5 2-oz. bottles, 8 vials, loops for instruments, spaces for dressings, etc., . . . . .	7 00
1247. Obstetrical Bag, same as 1246, 18 inches, . . . . .	7 50
1248. Pelvimeter, Davis', . . . . .	6 00
1249. “ Breisky's-Baudelocq's, . . . . .	7 00
1296. Speculum, Self-retaining, Dr. F. R. Schmucker's—Sims', . . . . .	2 50
1298. “ Leonard's, . . . . .	3 50
1299. “ Edebohl's, . . . . .	4 00
1300. “ Miller's Modification of Edebohl's, . . . . .	3 00
1301. “ Cleveland's, with strap, . . . . .	3 00
1302. Vaginal Retractor, Jackson's, . . . . .	1 25
1303. “ “ Robb's, 2 sizes, . . . . . each	1 50
1328. Powder Applicators, straight, Kirkpatrick's, . . . . .	3 50
1329. “ “ curved, “ . . . . .	3 50
1346. Abdominal Sponge-holding Forceps, . . . . .	3 00
1356. Ureter Catheter, Pawlik's, silver, . . . . .	2 25
1357. “ “ Kelly's, . . . . . set	13 50

[Abstract from *Annals of Gynecology and Padiatry*, May and August, 1893.]

## MY RECENT URETERAL WORK—CATHETERIZATION OF THE URETERS.

BY HOWARD A. KELLY, M.D.,

PROFESSOR OF GYNÆCOLOGY AND OBSTETRICS IN THE JOHNS HOPKINS UNIVERSITY, BALTIMORE.

**CATHETERIZATION, SOUNDING, AND DILATING.**—By catheterization of either ureter we are able to secure, isolated, the urine from the respective kidney of that side, containing evidence of disease of the ureter, pelvis of the kidney, or the kidney itself above the catheter, according to the microscopic character of its sediment.

**INSTRUMENTS AND ACCESSORIES EMPLOYED IN CATHETERIZATION.**—Two Kelly's ureteral catheters. One small calibre female catheter. One syringe, with a graduated barrel, of 4 or 5 oz. (120-150 c. c.) capacity. Eight oz. of a decided blue aniline solution—Sims' or Simon's speculum. Two minim or cubic centimetre graduates of about 60 minim capacity. Many patients can be catheterized without anæsthesia. The buttocks should be brought to the edge of the table, and the legs flexed upon the abdomen.

I observe the following routine in catheterizing: First, all the urine in the bladder is drawn off and put to one side, then the bladder is distended with 150 to 200 c. c. (about six ounces) of a methyl-blue solution. It is now evident that if the catheter enters the ureter in the catheterization and clear urine is discharged by the catheter it does not come from the bladder. There is one possible source of error—when the lower part of the ureter is so distended that the water from the bladder backs up into it and so escapes through the catheter; this will be obviated by carrying the catheter still higher up. I have noted this peculiarity twice.

There are two ways of introducing the catheter: the usual method is the one followed by Pawlik, by retracting the posterior vaginal wall and introducing the ureteral catheter into the bladder, and turning its point forward and trying to introduce it by observing the play of the point of the catheter over the anterior wall, as it seeks the ureteral orifices in the ureteral folds described by Pawlik. The ureters lie a little above or in the upper part of this fold, one or two centimetres to the right and left of the median line.

**THE URETERAL SOUND.**—A solid sound is of advantage in searching for ureteral calculi. The accompanying graduated sound is intended to measure the distance of a stone from the urethra, as well as to sound for stone in the pelvis of the kidney.

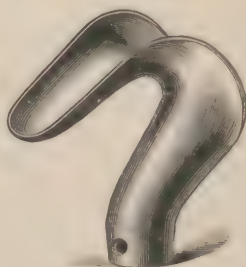
**URETERAL BOUGIES.**—Bougies bulbous behind the tip in a graduated series are valuable in dilating strictures in the lower half of the ureter. Simple strictures, however, will rarely be found. They will almost always be associated with calculus, pyelonephrosis, or multiple strictures involving the whole ureter, or tuberculous infiltration or fibrous thickening of the whole ureter.

In order to carry the ureteral catheter or sound over the brim of the pelvis, it is not necessary to use a flexible instrument. This can be effected by first filling the bladder with sufficient fluid (150-200 c. c.) to distend its folds and introduce the catheter into the ureter, and then drawing off all the contents of the bladder; a finger introduced into the rectum, high up, gently lifts the catheter and assists it over the brim and on up into the abdomen. This manœuvre is rendered possible by the loose cellular tissue in which the pelvic organs lie, allowing a wide displacement of bladder, ureter, and broad ligament without injury. The contracted bladder can be lifted up, while it is impossible to displace the full bladder in this way.

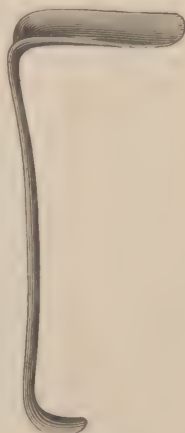
The boldface numbers represent instruments illustrated.



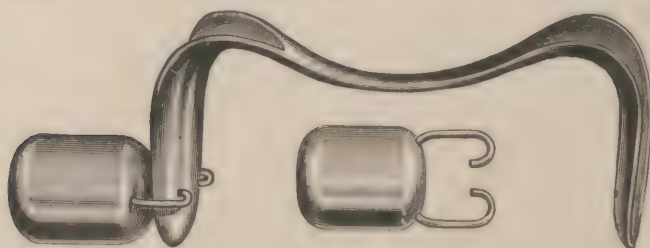
1248.



1299.



1302.



1296.



Case containing ureteral instruments. Two catheters and two bougies for dilating strictures, as well as two glasses measuring minims and cubic centimeters.

1357.

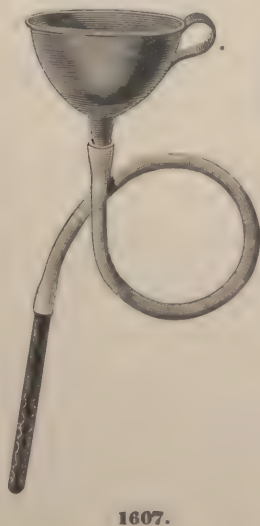
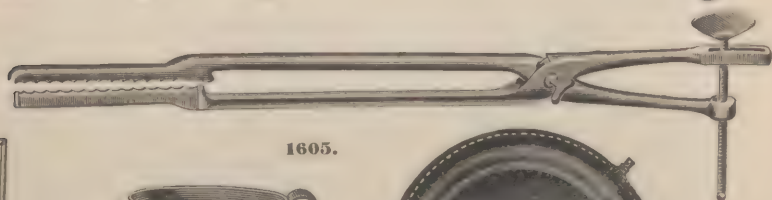
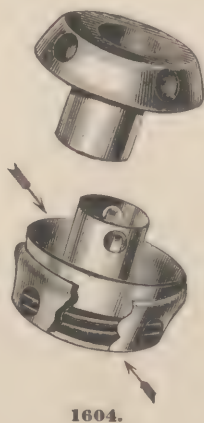
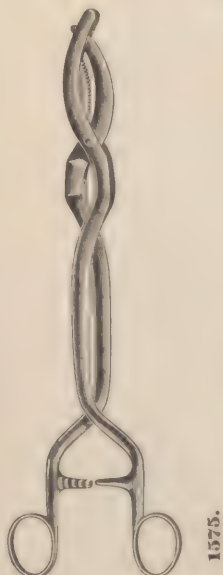
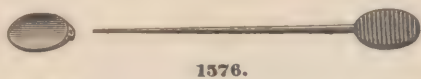


1424.



1522.





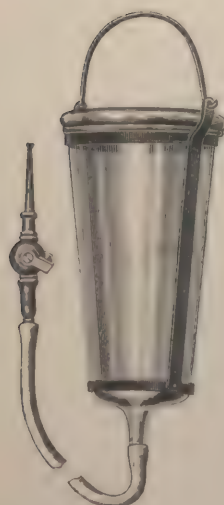
# C. H. GOLDTHWAITE & CO.,

NO.		PRICE.
<b>1359.</b>	Female Catheters, glass, . . . . .	\$0 15.
<b>1379.</b>	Curette, Martin's, . . . . .	2 00
<b>1380.</b>	" Leavitt's, double, . . . . .	1 00
<b>1381.</b>	" Rinsing, Sims', . . . . .	1 75
<b>1382.</b>	" " Thomas', . . . . .	1 25
<b>1421.</b>	Tenaculum Forceps, Hirst's, . . . . .	2 50
<b>1424.</b>	Serre-Nœud, Kœberle's, . . . . .	4 00
<b>1450.</b>	Scissors, Jenks', . . . . .	2 50
<b>1451.</b>	" for cutting at any angle, Heywood Smith's, . . . . .	9 00
<b>1471.</b>	Tissue Forceps, Langenbeck's, . . . . .	2 50
<b>1489.</b>	Morton's Shot Feeder, . . . . .	5 00
<b>1522.</b>	Abdominal Needle, Crofford's, . . . . .	1 25
<b>1523.</b>	Raviden Needles, two curves, . . . . . each	3 75
<b>1529.</b>	Uterine Dilators, Pratt's double, . . . . .	80
<b>1559.</b>	Cervical Plugs, Wylie's H. R., 9 sizes, . . . . . each	60
<b>1575.</b>	Hysterectomy Clamp Forceps, Eastman's, . . . . .	5 00
<b>1576.</b>	" Pin, Eastman's, . . . . .	75
<b>1577.</b>	Pedicle Needles, 3 curves, . . . . . each	1 25
<b>1604.</b>	Anastomosis Buttons, Murphy's, . . . . . set of 3	10 00
<b>1605.</b>	Enterotome, Barton's, for lateral anastomosis, . . . . .	4 50
<b>1606.</b>	Kelly's Drainage Tube Forceps, . . . . .	2 00
<b>1607.</b>	Abdominal Flushing Tube, Price's, . . . . .	2 50
<b>1608.</b>	Surgical Cushion, improved, with covered channel, 20 inches, .	6 00
<b>1609.</b>	" " " " " " 24 " .	7 50
<b>1620.</b>	Irrigator, glass, with tubelature and 6 feet of tubing, and hard rubber stop cock, 1 gallon, \$3 75; 2 gallons, 4 50; 3 gallons, .	5 50
<b>1621.</b>	Irrigator, bottle form, with 6 feet of tubing and stop cock, 1 gallon, \$4 00; 2 gallons, 5 00; 3 gallons, 6 00; 5 gallons, . .	8 50
<b>1663.</b>	Uterine Pessary, Goddard's, . . . . .	2 50
<b>1691.</b>	Lindenschmidt's Urethral Irrigator and Dilator, . . . . .	5 00
<b>1692.</b>	Wachter Improved Urethral Syringe, hard rubber, . . . . .	4 00
<b>1693.</b>	Endoscope, Klotz's, . . . . .	1 75
<b>1799.</b>	Gerster's Self-registering Aseptic Dilating Urethrotome, in morocco case, . . . . .	20 00
<b>1811.</b>	Urethrotome, Otis' Dilating Straight, in case, . . . . .	20 00
<b>1844.</b>	Phymosis Forceps, Briggs', . . . . .	2 50
<b>1883½.</b>	Lithotomy Staff, angular, . . . . .	2 00
<b>1901.</b>	Leiter's Cystoscope, . . . . .	
<b>1902.</b>	" Panelectroscope, . . . . .	
<b>1949.</b>	Langdon's Rectal Tube, for colonic irrigation and feeding per rectum, . . . . .	1 50
<b>1983½.</b>	Kelsey's Pile Clamp, . . . . .	5 00
<b>2043.</b>	Hard Rubber Funnel, ½ pint, . . . . .	50

The boldface numbers represent instruments illustrated.



1329 and 1328.



1620.



1691.



1692.



1693.



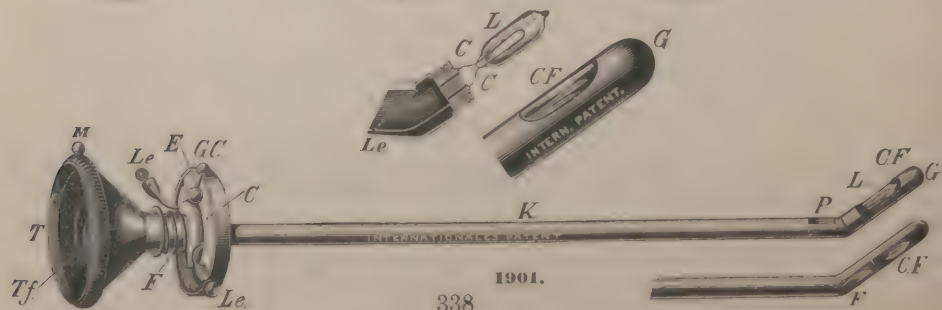
1799.



1811.



1883 1/2.



1901.

338



# 186 WASHINGTON ST., BOSTON.

NO.		PRICE.
2044.	Hard Rubber Funnel, $\frac{1}{4}$ pint, . . . . .	\$0 40
2047.	McWilliams' Urinary Test Set, . . . . .	4 00
2048.	Boston " " . . . . .	7 00

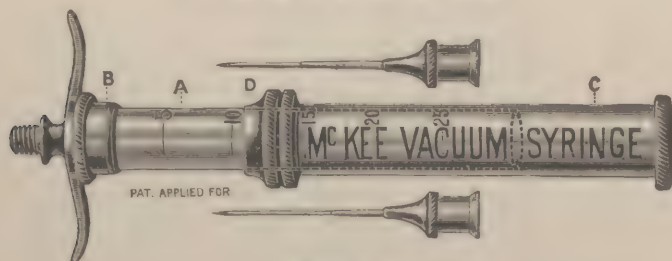
This case is constructed on a new principle, which possesses many advantages. The front of the case swings out in two sections, placing everything within easy reach. A wire frame for holding evaporating dishes swings out so that a lamp may be placed under it. The test-tube rack holds one dozen test tubes, making it possible to test a number of specimens, from time to time, by simply opening the case. When the analysis is finished or interrupted, the case can be closed in less than a second, protecting the contents from the injurious effects of dust, light, and air.

The following contents, it will be seen, provides for Heller's, Moore's, Trommer's, Fehling's, and the Fermentation Tests. It is the most convenient and most complete set ever offered to the profession. Eight reagents, viz.: sulphuric acid, acetic acid, muriatic acid, nitric acid, iodide potass and mercury, Fehling's solution, potassium hydrate, ammonia; 1 urinometer, best; 1 alcohol lamp, 2 beaker glasses, 2 glass funnels, 1 porcelain evaporating dish, 12 test tubes, 1 test-tube holder, 2 watch glasses, 1 pipette, 1 stirring rod, 2 books litmus papers, filter papers.

2062.	Stethoscope, Snofden's, . . . . .	2 25
2063.	" Dalande's, . . . . .	1 25
2064.	" Dennison's, . . . . .	5 00
2115.	McKee Vacuum Syringe, . . . . .	2 50

## McKEE VACUUM HYPODERMIC SYRINGE.

NO PACKING TO GET OUT OF ORDER.



No. 2115.

This syringe consists of a graduated glass barrel (A), over which an air-tight suction cylinder (C) moves, thus doing entirely away with any interior plunger or packing. At the forward end of suction cylinder is a recessed separating screw-cap (D), in which is placed an ordinary washer, so that by screwing this cap (D) the washer is compressed on the barrel, thus preventing any leakage. When the washers need renewing (which is very seldom), separating-cap is unscrewed, and another washer is simply slipped over barrel. The cap is screwed back into position, and the syringe is then ready for use.

The boldface numbers represent instruments illustrated.

## C. H. GOLDTHWAITE & CO.,

The above advantage alone will recommend this syringe to the profession, who are constantly annoyed by hypodermic syringes that are continually out of order.

**THOROUGHLY ASEPTIC.**—This syringe is so made that it may be easily and quickly cleaned, which has never yet been possible on any other pattern of hypodermic syringe. Graduated glass barrel is made with the thread molded directly on the glass tube (B), thus avoiding cementing the metal end on, as is usually done, and the entire syringe may be instantly taken apart, and is so simple that it is almost impossible to get out of order unless broken.

**A VERY IMPORTANT FEATURE.**—By having no interior plunger or leather packing to get out of order (which alone is a very great improvement), interior of barrel is kept entirely free from oil and small particles of leather, thus preventing any foreign, objectionable matter mixing with the medicine.

Syringe may be used in position from point downward to almost horizontal, but not point upward.

For lymph injection this syringe will prove of inestimable value on account of its aseptic qualities.

Each syringe has two reinforced seamless steel needles, and is put up in neat case, with two vials and a cleaning brush.

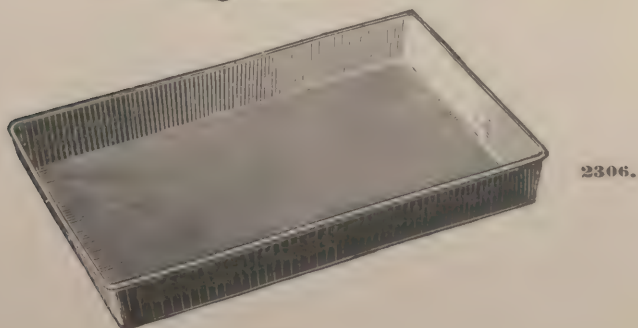
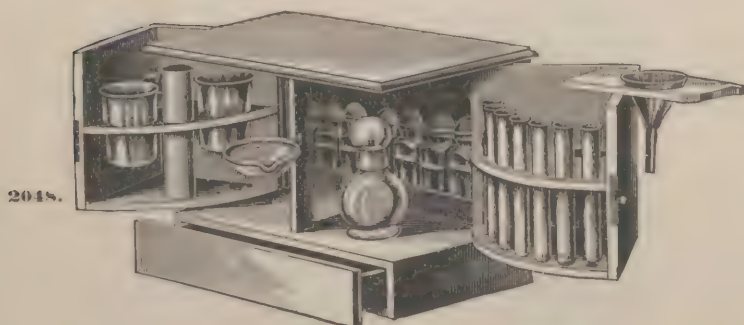
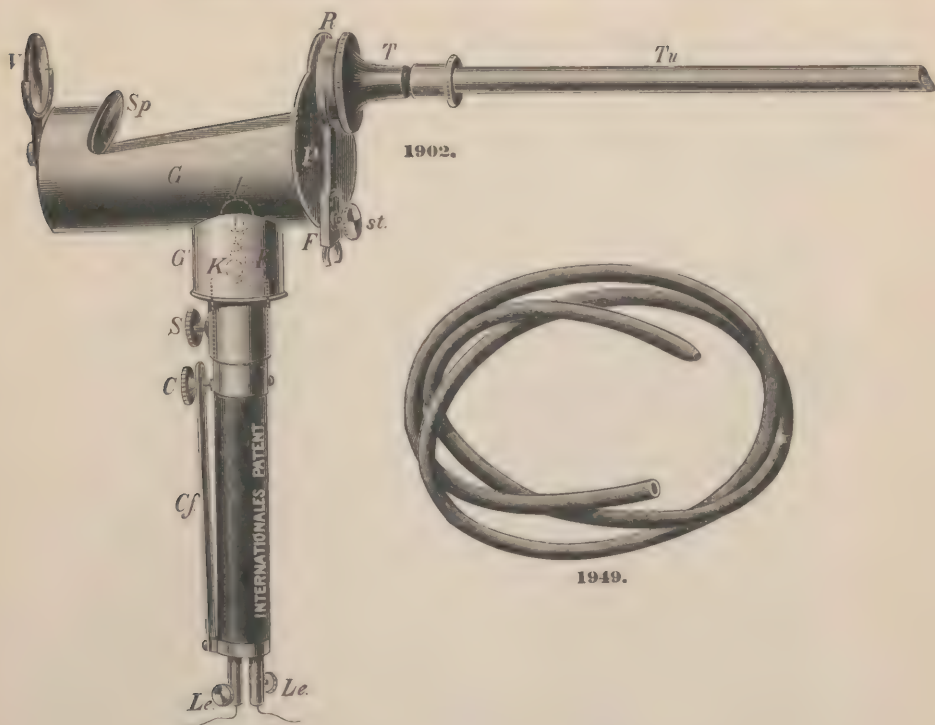
NO.	PRICE.
2230. Stop-cocks, hard rubber, Esmarch's, . . . . .	\$0 85
2231. Imperial Fountain Syringes, 1 quart, \$1 00; 2 quart, \$1 15; 3 quart, \$1 35; 4 quart, . . . . .	1 50
2232. Tyrian Water Bottle, 1 quart, \$1 15; 2 quart, \$1 25; 3 quart, . . . . .	1 35
2302. Soft Rubber Tray, 8 x 10 inches, . . . . .	2 00
2303. " " " 9 x 12 " . . . . .	2 25
2304. " " " 10 x 6 " . . . . .	3 25
2305. Glass Trays, ribbed, $4\frac{1}{4}$ x $5\frac{1}{4}$ inches, 75 cts.; $6\frac{1}{4}$ x $8\frac{1}{2}$ , \$1 00; $8\frac{1}{2}$ x $10\frac{1}{2}$ , \$1 60; $9\frac{1}{2}$ x $12\frac{1}{2}$ , \$2 00; $12\frac{1}{2}$ x $14\frac{1}{2}$ , . . . . .	4 00
2306. Glass Trays, polished edges, $4\frac{1}{4}$ x $5\frac{1}{4}$ inches, 65 cts.; $6\frac{1}{4}$ x $8\frac{1}{2}$ , 90 cts.; $8\frac{1}{2}$ x $10\frac{1}{2}$ , \$1 40; $9\frac{1}{2}$ x $12\frac{1}{2}$ , \$1 80; $12\frac{1}{2}$ x $14\frac{1}{2}$ , . . . . .	3 60
2307. Enameled Antiseptic Lipped Trays for Instruments, 15 x 9 x $1\frac{3}{4}$ inches, . . . . .	2 50
2308. Ligature Tray, porcelain, with compartments, . . . . .	1 00
2309. Tait's Silk, 3 sizes, . . . . . per skein	40
2334. Single Spool Ligature, tank package, regular size, . . . . .	30
2335. " " " " " hospital " . . . . .	75
2336. Three " " " " " regular " . . . . .	75
2337. " " " " " vertical " " . . . . .	50

Any ligature will be supplied.

2342. Antiseptic Irrigator, . . . . .	2 00
2343. Crescent Nail Brush, . . . . .	50
2414. Jobse Bandage Roller, . . . . .	3 00
2415. Bandage Shears, Bull's, . . . . .	1 75

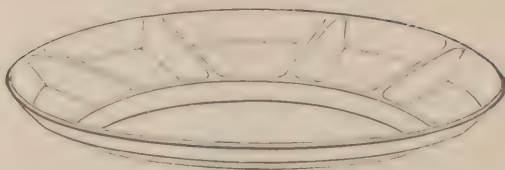
The boldface numbers represent instruments illustrated.

186 WASHINGTON ST., BOSTON.

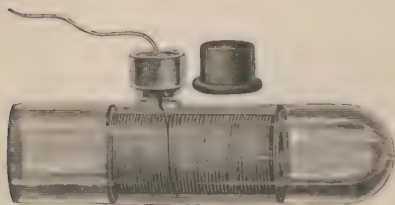




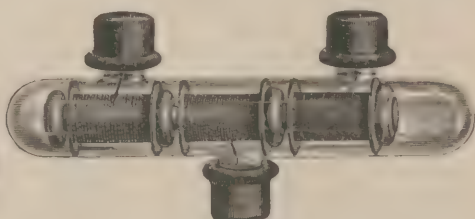
2307.



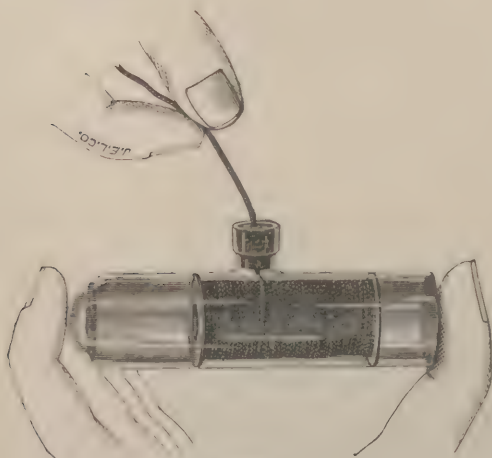
2308.



2334.



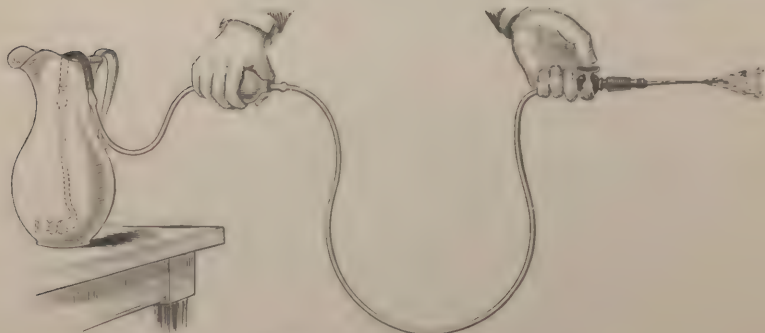
2336.



2335.

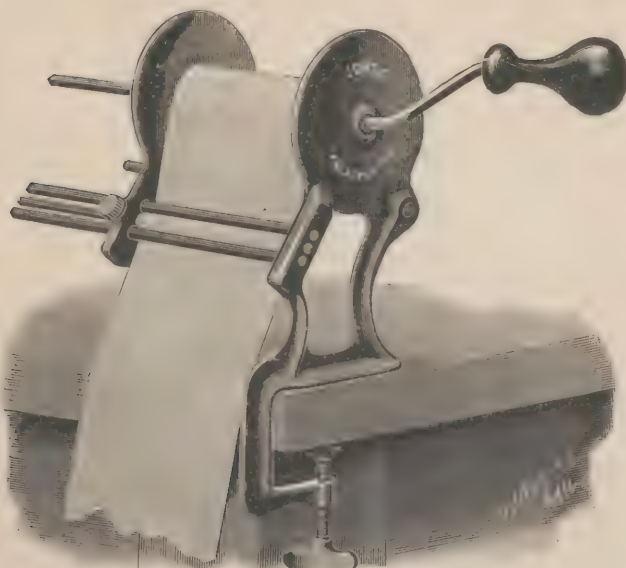


2337.



2342.





No. 2414.



2343.



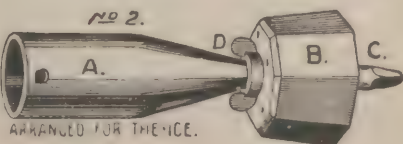
2415.



2416.



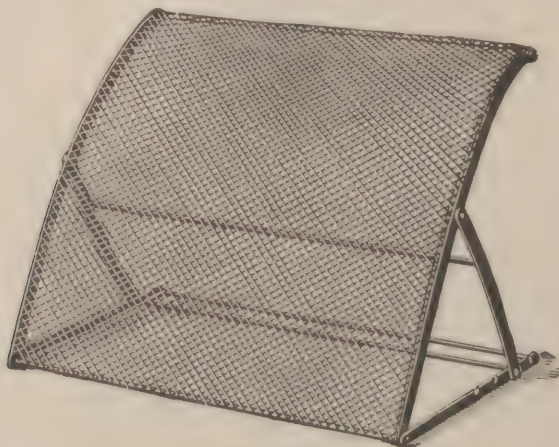
2417.



2645.

# C. H. GOLDTHWAITE & CO.,

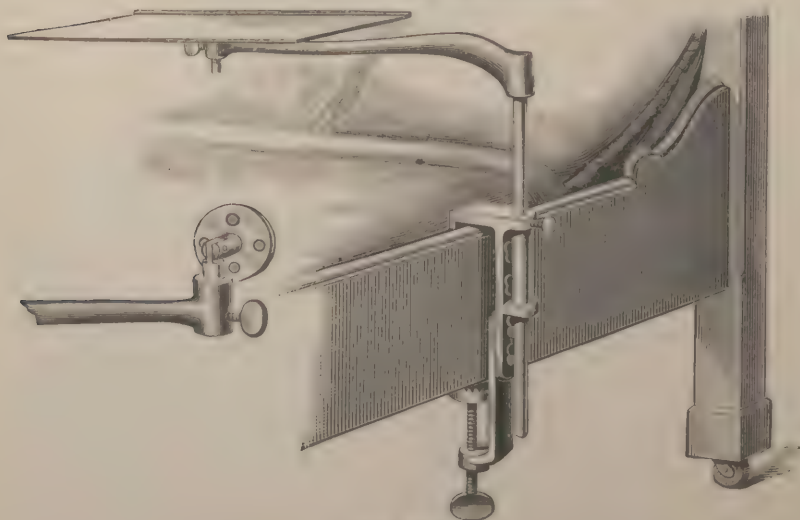
NO		PRICE.
2416.	Plaster Paris Bandage Shears, Esmarch's, . . . . .	\$2 75
2417.	" " " " Henckle's knife-cutting, . . . . .	6 50
2418.	" " " " Wilson's, . . . . .	4 00
2419.	" " " Saw, Fowler's, . . . . .	2 00



No. 2812.

2423.	Nursery Refrigerator, small, . . . . .	2 25
2424.	" " large, . . . . .	3 00
2438.	Aseptic Razor, in case, . . . . .	2 25
2645.	Donald Safety Crutch Attachment, . . . . . per pair,	3 50

## THE "COOK" PATENT INVALID TABLE, FOR HOSPITALS OR PRIVATE USE.



No. 2813.

The boldface numbers represent instruments illustrated.

## 186 WASHINGTON ST., BOSTON.

NO.		PRICE.
2812.	Adjustable Back Rest, woven wire, . . . . .	\$4 00
2813.	The "Cook" Patent Invalid Table, japanned, . . . . .	3 50
2814.	" " " " " nickel, . . . . .	5 00

This table can be quickly adjusted to any bed-rail or spring-frame by means of the clamp and thumb-screw ; and through an opening in this rests a small cylinder, from the top of which projects a revolving arm, and to the end is attached a small table or tray.

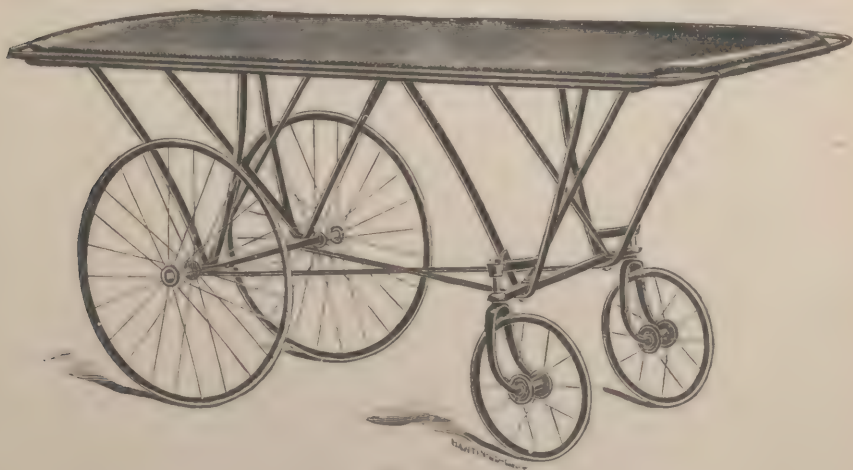
This table can be moved over the bed in any direction, and can be lowered or raised to suit the position of the patient; at the same time the patient can move without interfering with the table.

It can be used as a book-rest or writing-desk, as well as a medicine stand or to eat from.

When this table is not in use it can be turned to the side of the bed-rail, and is then out of the way. When it is in position, with the slightest effort, either by the nurse or patient, it can be moved over the bed in any direction desired.

The table is not flimsy, but strong and substantial. It is not at all complicated. It is not by any means unsightly, or clumsy, or in any way objectionable to the eye.

It will be a source of satisfaction to physicians to recommend them to their patients; they will see how convenient and extremely handy they are in many ways, and they fulfill the requirements desired by invalids and physicians alike.



No. 2822.

2821.	Hospital Wheel Stretcher,	. . . . .	30 00
2822.	“ “ “	. . . . .	40 00
2823.	Judson's Invalid's Adjustable Stretcher,	. . . . .	10 00

The Invalid's Adjustable Stretcher is a new and admirable invention for

The boldface numbers represent instruments illustrated.



No. 2823.

moving helpless invalids, entirely obviating many of the difficulties, dangers, and discomforts to patient and attendant usually incident to any lifting of the very sick, the injured, or the paralyzed.

By means of this simple mechanism, the sufferer, without change of position or removal from the sheet upon which he is lying, may be raised with ease and carried to another bed or room. This valuable acquisition to the hospital as well as to the private sick-room, the necessities of which have given rise to its invention, can be operated with the greatest ease. It enables two persons, with little effort and without disturbance to the most sensitive invalid, to accomplish for him those changes of place and scene so often of primary importance in the treatment of disease. Without the use of the Stretcher, many of these changes are impossible, while others which are indispensable must be effected painfully and unsatisfactorily by not less than four persons.

The several parts of the Stretcher are two side strips, two nickeled steel holding braces, with mahogany handles, and a supporting piece, which may be the usual under sheet of the bed.

The sheet must be folded back at the head and foot, so that when the lifting bars are placed in position the steel plates on the latter will be exposed, to admit of engagement with the braces. The bars are then to be placed under the side edges of the sheet and rolled *under* smoothly, care being taken to draw the sheet more at the middle, to allow for the double thickness at the ends, which roll faster. When the sheet is rolled until the space between the bars is somewhat less than the length of the braces, the latter should be bowed, placed in engagement with the plates on the bars, and sprung into position.



NO. 2840. "Perfection" Physician's Cabinet, . . . . . \$ PRICE.

A REVOLVING, ASEPTIC, COMBINATION,  
DISPENSING, INSTRUMENT, AND  
BATTERY CABINET.

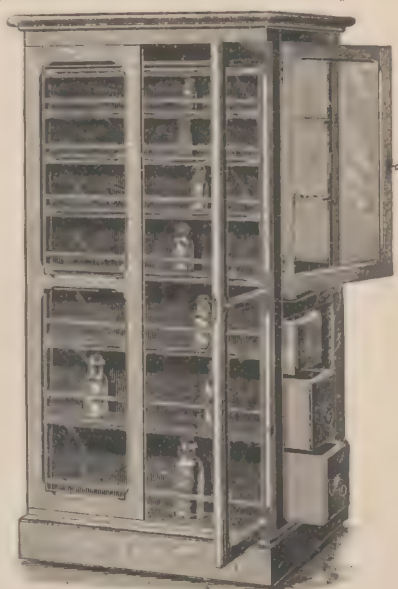
Style A, Quartered Oak, antique  
finish, heavy glass all round, . \$50 00

Style B, Quartered Oak, antique  
finish, plate glass all round, . 55 00

Style C, Quartered Oak, antique  
finish, bev. plate glass all round, 60 00

Beveled Plate Mirror in front of  
Instrument Case \$5.00 extra.

For Walnut or Cherry add \$5.00 to  
the price of any style.



No. 2840.

## ORTHOPEDIC APPARATUS.

YOUR ATTENTION IS CALLED TO PAGE 225.

2852½. Davis' Torticollis Brace, . . . . . \$25 00

This apparatus consists of a steel bar surrounding the head at a distance of about two inches from it, and supported from the shoulders by a collar brace. The head is supported by a strong elastic band from the centre of the arch, thus producing constant elastic tension of any desirable degree.

### DIRECTIONS FOR MEASUREMENT.

1. Patient's age.
2. Length from crest of ilium to axilla.
3. Perpendicular distance from top of head to crest of ilium.
4. Circumference at waist line.

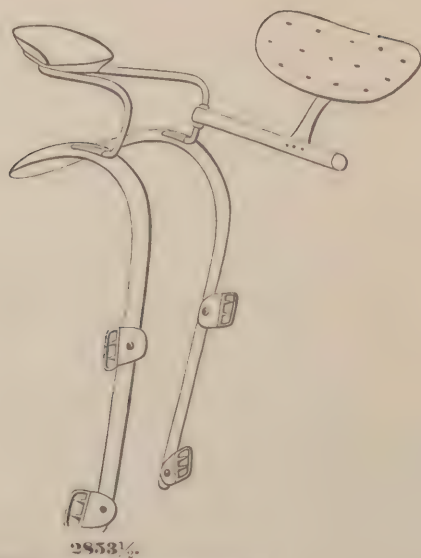
2853½. Head Support for Cervical Caries, . . . . . \$15 00

The illustration shows the apparatus with the support for the back of the head, thrown backward, ready for application. It consists of padded steel bars passing over the shoulders and down the back. The head rests in a padded support rising from the shoulder bars.

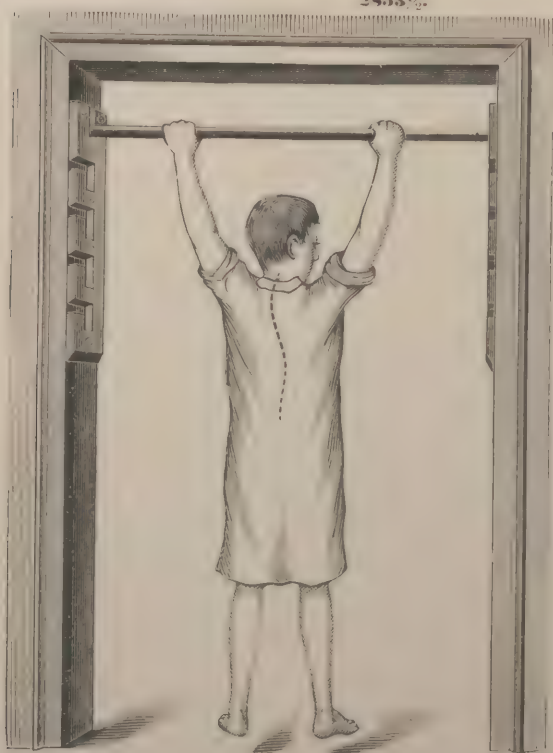
### DIRECTIONS FOR MEASUREMENT.

1. Age of patient.
2. Circumference of waist.
3. " " " under arms.
4. Length from crest of ilium to axilla.

The boldface numbers represent instruments illustrated.



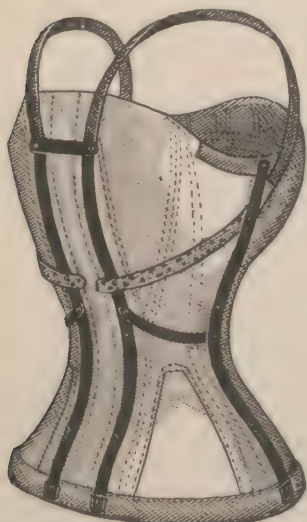
2856 1/2.



NO. **2856½**. Horizontal Bar for Gymnastics, hard wood finish, . . . . . \$4 00 PRICE.

Gymnastic exercise with an appropriate apparatus is recognized as being of advantage in cases of spinal disorders. The accompanying cut shows an apparatus that can be adjusted to any doorway, and the bar may be removed when not in use.

**2860½**. Corset Lace-Brace for Spinal Curvature, in the early stages of the disease, . . . . . \$22 50



No. 2860½.

This apparatus is intended for use when the deformity is not strongly marked. It consists of a close-fitting, substantial corset, with a flexible steel frame, giving support but allowing limited motion.

The weight of the upper part of the body is borne on the hips and the spine relieved.

DIRECTIONS FOR MEASUREMENT.

- Circumference, hips.
- “ crest of ilium.
- “ waist.
- “ bust.

Distance from axilla to waist line.

Distance from waist line to trochanter major.

Position of deformity.

DR. HAWKES' SPINAL PAPER JACKET.

**2861½**. Hawkes' Spinal Paper Jacket, . . . . . \$25 00 to 40 00

INJURY TO THE SPINE: INVENTION AND APPLICATION OF PAPER JACKET.

By J. MARSHALL HAWKES, M.D.,  
OF NEW YORK CITY.

EXTRACT:

Compared with other orthopædic appliances intended to furnish a proper support for the spine when the lesion is in the lower dorsal or lumbar region, I believe that for the following reasons the method described is the best yet devised:—

1. It is the thinnest, lightest, and strongest jacket, furnishing sufficient support, ever made. Though its average weight is only about twelve ounces, and its average thick-



No. 2861½.

The boldface numbers represent instruments illustrated.

ness less than three thirty-seconds of an inch, yet it is able to sustain a weight of over two hundred pounds.

2. It is impervious to moisture; hence, does not absorb perspiration, and consequently does not become unbearable to the wearer.

3. A lady can wear it in place of the ordinary corset without "letting out" her dresses or making any change in her ordinary wearing apparel.

4. The most muscular laborer engaged in the severest kind of manual labor finds it capable of sustaining any necessary strain.

5. It furnishes a more convenient, efficient, and durable support for the jury-mast, shoulder-brace, abdominal supporter, trass, leg-brace, etc., than any other kindred appliance.

6. It does not disintegrate and soil the clothing like plaster, or rust out like "alloy wire," or soften like felt.

7. It affords a solid base from which to furnish direct pressure to remedy any existing or developing deformity, yet accommodates itself to the action of the muscles of respiration.

8. It can be easily modeled to fit any exaggeration of anatomical contour, and can be ventilated, by means of eyelets, to any extent.

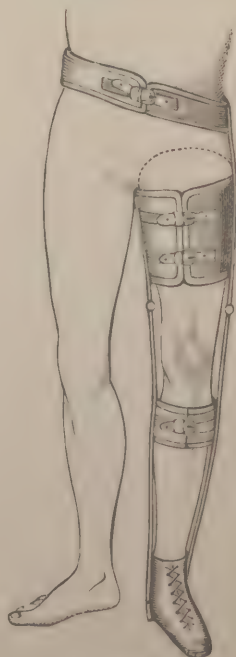
9. It is practically indestructible. The patient can never wear it out.

10. Its cost is no more than that of any other first-class appliance.

Soon after perfecting the paper jacket, I extended the application of paper to the making of splints. The result was as gratifying as in the case of the jacket.



No. 2864½.



No. 2865½.



NO.

PRICE.

**2864** $\frac{1}{2}$ . Thomas' Hip Splint, with shoe elevation and crutches, . . . \$25 00

This apparatus consists of a flat steel bar made to conform to the contour of the back, hip, and leg, extending from the inferior angle of the scapula to a little above the ankle, with a steel band at lower end, one at upper third of thigh, and one at top of bar. The apparatus, when applied with bandages, prevents all motion of the affected part. An elevation is applied to the opposite shoe, and the patient walks with crutches.

**2865** $\frac{1}{2}$ . Dr. Agnew's Hip Joint Apparatus, . . . \$30 00

This apparatus consists of two steel bars, without joints at the knee or hip, fastened securely to the sole of the shoe. The bars are fitted with a key and ratchet, which allows them to be lengthened. The upper thigh band is wide and thickly padded, with the upper edge rounded, so the weight of the body may be taken on this band as a socket. Thus, by lengthening the side bars, extension may be produced, and at the same time the weight of the patient will be taken on the apparatus and not on the affected part.

## DIRECTIONS FOR MEASUREMENT.

1. Patient's age.
2. Right or left.
3. Length from sole of foot to ankle joint.
4. " " " symphysis pubis.
5. " " " trochanter major.
6. Circumference of calf.
7. " " middle of thigh.
8. " " top of thigh.
9. " " waist.

**2873** $\frac{1}{2}$ . Yarnall's Anchylosis and Knee Extension Brace (without Shoe), . . . \$20 00

This apparatus is applicable to cases of partial anchylosis of the knee joint, by giving a steady motion by means of the thumbscrews on the side bars, and gradually increasing the motion of the affected joint.

In the same manner muscular contractions are overcome. It has the advantage that it may be fixed in any position, or a limited motion allowed.

## DIRECTIONS FOR MEASUREMENT.

Circumference of ankle.

" of calf.

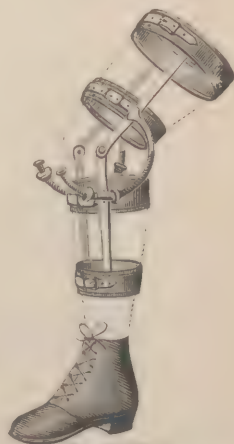
" of lower thigh.

" of upper thigh.

Distance from ankle joint to knee joint.

" from knee joint to crotch.

Right or left.

No. 2873 $\frac{1}{2}$ .

No. 2902.

The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

NO.	PRICE.
<b>2902.</b> Apparatus for Bunions, Biggs, . . . . .	<b>\$6 00</b>

This apparatus allows freedom of motion, while the toe is held in a natural position and the deformity corrected. It can be worn inside of an ordinary shoe.

## DIRECTIONS FOR MEASUREMENT.

Place the foot on paper and trace outline with a pencil.

Circumference of ball of foot. Circumference of foot over heel.

**2903.** Spring for Ingrowing Toe Nails, . . each **\$1 50**



**No. 2903.**

This is a small silver spring, adjustable to any size nail, so constructed that it catches under the lateral edges of the nail and exerts a constant pressure upward. It fits closely and can be worn in a shoe without inconvenience.

**2904.** Jointed Tripod, . . . . . **12 00**



**No. 3084 1/2.**

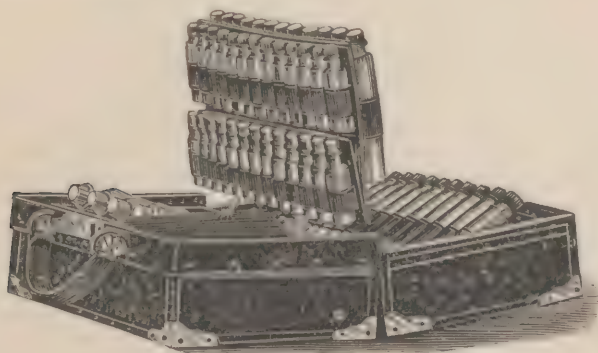
**3084 1/2.** Vial Case, contains 24 2-drachm vials, soft flexible case, black, flat catch, . . . . . **2 75**



**No. 3123.**

The boldface numbers represent instruments illustrated.

NO.		PRICE.
<b>3123.</b>	Vial Case, contains 10 6-drachm, 8 4-drachm, 32 2½-drachm corked vials, a graduated minim measure, and box for Hypodermic Syringe, . . . . .	\$5 75



**No. 3124.**

<b>3124.</b>	Buggy Case, contains 4 2-oz., 26 1-oz., 26 3-drachm bottles, also space for pocket instruments; indestructible springs holding bottles; metal trimmings, . . . . .	10 00
<b>3125.</b>	Satchel Case, contains 9 1-oz., 16 3-drachm, and 20 2-drachm corked vials on one side, and the other side is an empty space, protected from the medicine, for instruments, . . . . .	13 00



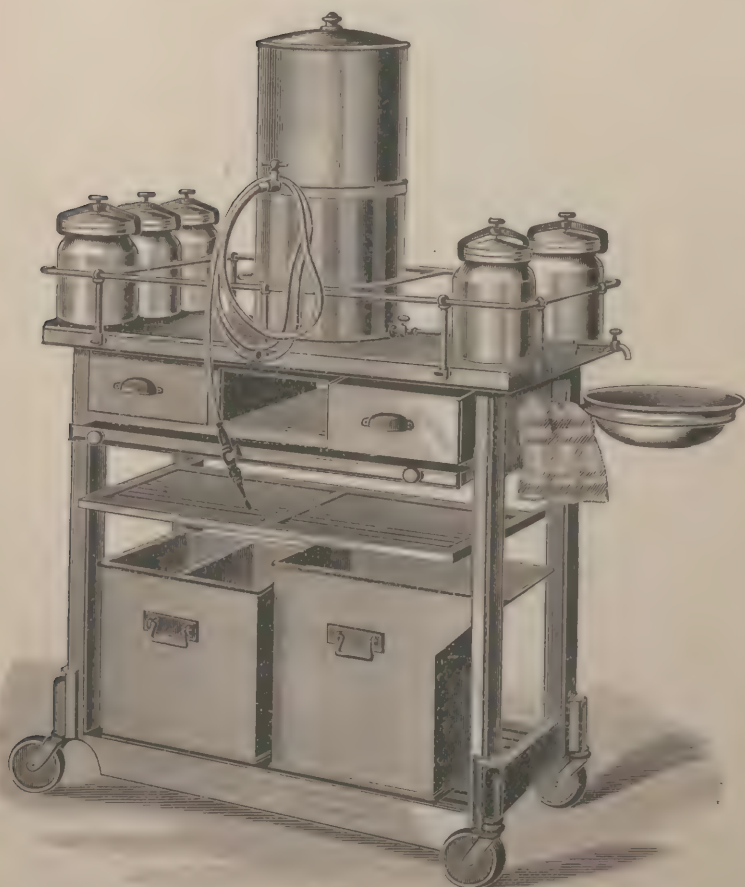
**No. 3125.**

<b>3126.</b>	Cabin Bag, black or russet, sole leather, contains 36 4-drachm vials and pocket, vials on movable case in middle of bag, space for pocket case and sundries, . . . . .	10 50
<b>3127.</b>	Cabin Bag, same as 3126, but contains 24 4-drachm vials and 24 2-drachm vials, . . . . .	11 00
<b>3128.</b>	Cabin Bag, same as 3126, but contains 9 1-ounce and 24 4-drachm bottles, . . . . .	10 50
<b>3129.</b>	Cabin Bag, same as 3126, but contains 48 4-drachm bottles. . . . .	11 25

The boldface numbers represent instruments illustrated.



3126.



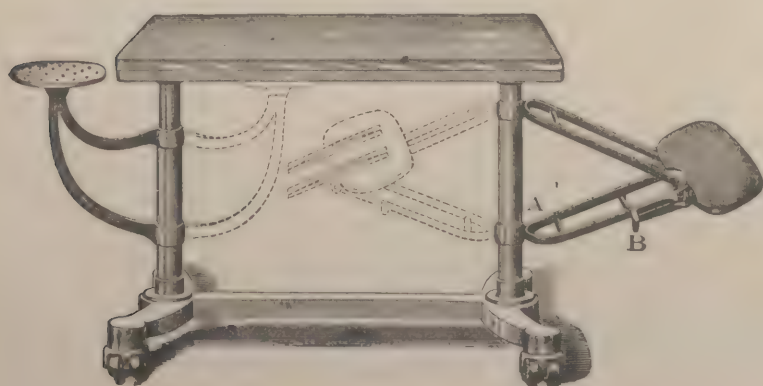
3550.

354





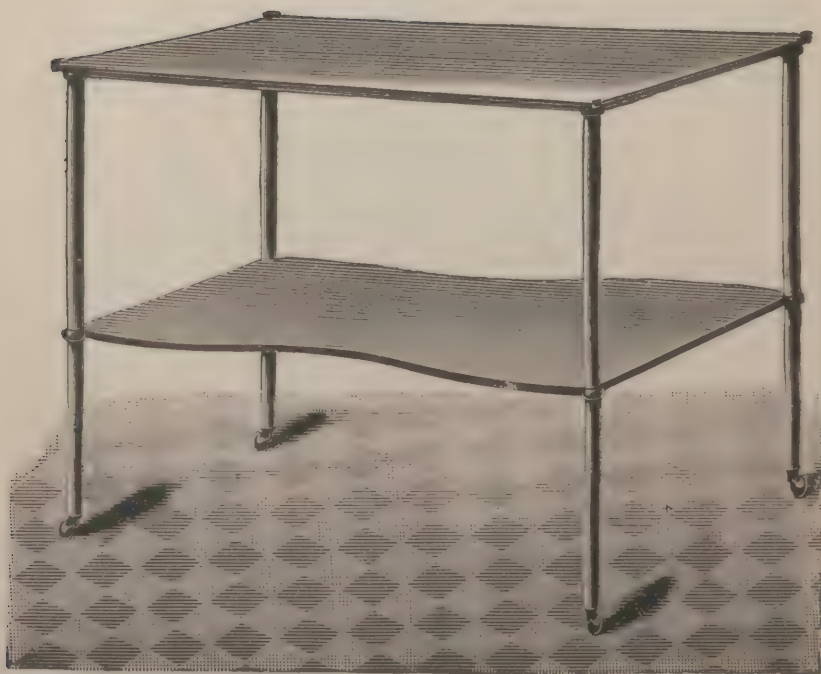
3555.



3560.



3565.



3570.

## HOSPITAL APPURTENANCES.

NO.		PRICE.
<b>3550.</b>	Hospital Ward Carriage, . . . . .	\$75 00 to \$100 00
<i>3552.</i>	" " " all metal, . . . . .	60 00 to 85 00
<b>3555.</b>	Operating Table, Foerster's, . . . . .	35 00
This table can be folded, making it portable, and can be adjusted to the Trendelenburg's position.		
<i>3558.</i>	Krug's Portable Frame for Trendelenburg's Posture, . . . . .	20 00



No. 3575.

<b>3560.</b>	Kelly's Antiseptic Operating Table, glass top, . . . . .	165 00
<b>3565.</b>	Rotating Operating Table, . . . . .	\$75 00 to 125 00
<b>3570.</b>	Instrument and Dressing Table, with glass top and iron shelf in centre, dimensions 32 x 24 inches, height 34 inches, . . . . .	25 00
<i>3571.</i>	Instrument and Dressing Table, dimensions 28 x 20 inches, height 32 inches, . . . . .	10 00
<b>3575.</b>	Antiseptic Operating Gowns, long bleached drilling, shrunk, . . . . .	2 50
"	" " " pure linen, " . . . . .	3 50

The boldface numbers represent instruments illustrated.



No. 3580.

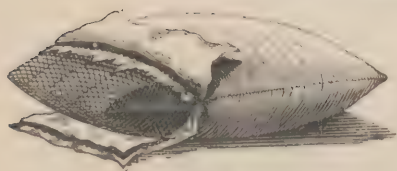
NO		PRICE.
3576.	Aseptic Operating Coats, short, . . . . .	\$1 50
<b>3580.</b>	Bedsteads, iron, with woven wire spring mattress, . . . . .	10 00
3581.	“ “ “ “ “ 3 ft. 6 in. x 6 ft. 4 in. . . . .	13 00
<b>3583.</b>	Adjustable Iron Invalid Table, . . . . .	5 00



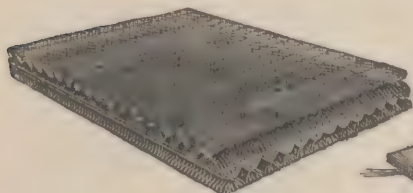
No. 3583.

The boldface numbers represent instruments illustrated.

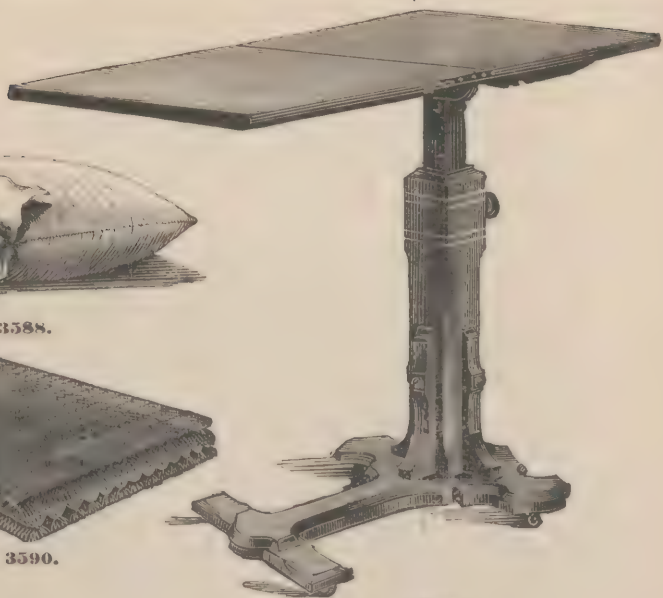




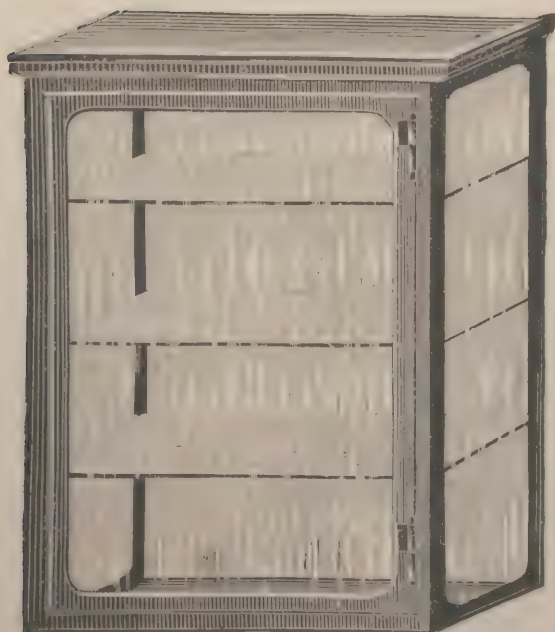
3588.



3590.



3584.



3592.

# C. H. GOLDTHWAITE & CO.,

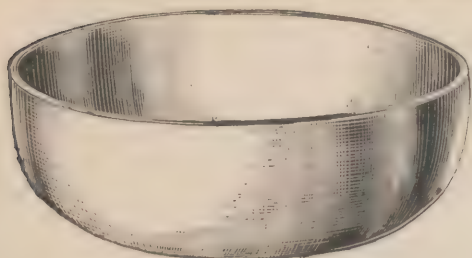
NO.		PRICE.
<b>3584.</b>	Invalid Table, . . . . .	\$12 00
<b>3588.</b>	Torsion Braided Wire Pillow, adult's, . . . . .	3 50
<i>3589.</i>	" " " " child's, . . . . .	2 50
<b>3590.</b>	" " " Mattress, full size, . . . . .	30 00
<b>3592.</b>	Instrument Cabinet, iron, to stand on table, height 32 inches, width 20 inches, depth 16 inches, with 3 polished glass shelves, 50 00	



**No. 3593.**

- 3593.** Instrument Cabinet, to stand on floor, height 50 inches, width 20 inches, depth 16 inches, five polished plate-glass shelves, enameled iron frame and back, single door, . . . . . 90 00
- 3594.* Instrument Cabinet, to stand on floor, height 60 inches, width 30 inches, depth 16 inches, with six plate-glass shelves, enameled iron frame and back, two doors, . . . . . 150 00

The boldface numbers represent instruments illustrated.



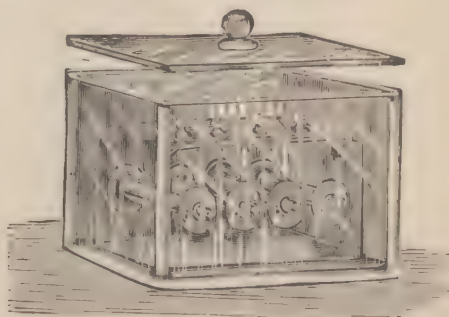
3600.



3601.



3596.



3604.



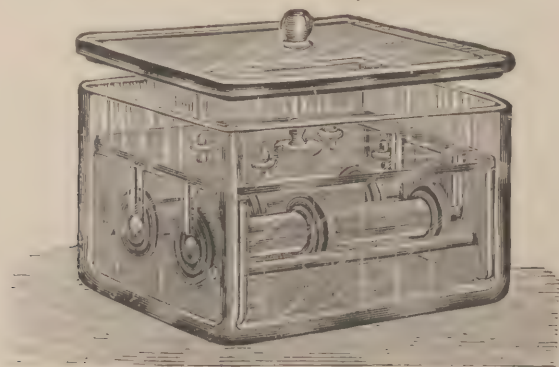
3603.



3598.

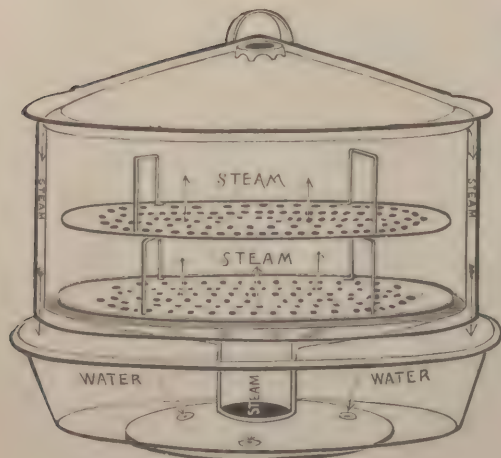
# C. H. GOLDTHWAITE & CO.,

NO.		PRICE.
3595.	Reclining Invalid Rolling Chair, child's, . . . . .	\$20 00
3596.	" " " " adult's, . . . . .	24 00
3597.	Patent " " " child's, . . . . .	24 00
3598.	" " " " adult's, . . . . .	30 00
3600.	Glass Bowls, heavy crystal, 8 inches, \$1 25; 10 inches, \$1 80; 12 inches, \$2 50; 14 inches, \$4 80; 16 inches, . . . . .	6 00

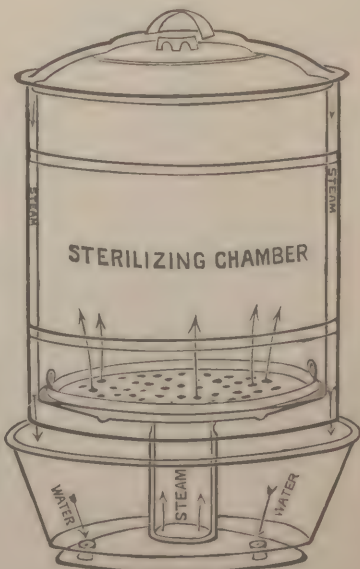


**No. 3605.**

3601.	Glass Bowl, shallow, oval, 10 inches long, 6 inches wide, . . .	1 20
3603.	Ligature Box, glass, with ground flat plate cover, $5\frac{1}{2} \times 2\frac{1}{4} \times 2\frac{1}{4}$ inches high, . . . . .	2 25



**No. 3610.**



**No. 3611.**

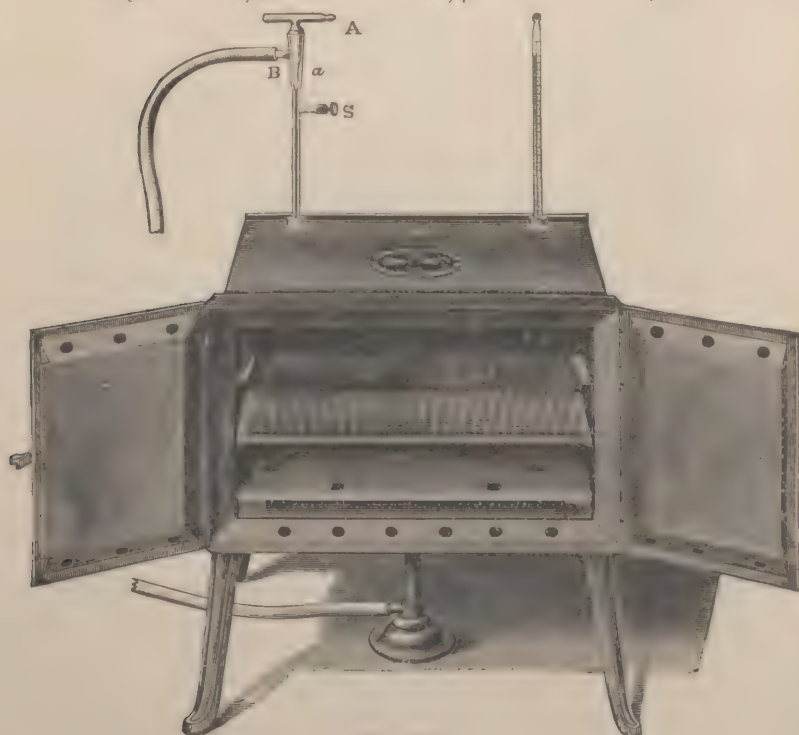
The boldface numbers represent instruments illustrated.



# 186 WASHINGTON ST., BOSTON.

NO.		PRICE.
<b>3604.</b>	Ligature Box, glass, Hagedorn's, with knobbed cover and extra inside glass box with 4 spools, $6\frac{1}{4} \times 3\frac{1}{2} \times 3\frac{3}{4}$ inches high, .	\$4 50
<b>3605.</b>	Ligature Box, glass, with knobbed cover, 4 large spools, $7 \times 5\frac{3}{4} \times 4$ inches high, . . . . .	6 00
<b>3606.</b>	Glass Spools, . . . . . per doz.	1 50
<b>3610.</b>	Arnold's Instrument Sterilizer, heavy tin, copper bottom, . . .	5 00
	" " " all copper, . . . . .	12 50
<b>3611.</b>	Arnold's Steam Sterilizer for Instruments, Bandages, Gauzes, etc.	

	HEIGHT.	DIAMETER.	HEAVY TIN, COPPER BOTTOM.	ALL COPPER.
No. 3,	$10\frac{1}{8}$ inches,	$9\frac{3}{8}$ inches,	\$3 00	\$8 00
No. 4,	$11\frac{1}{2}$ "	$10\frac{1}{2}$ "	3 50	9 00
No. 5,	$12\frac{1}{2}$ "	$11\frac{1}{4}$ "	4 00	10 00



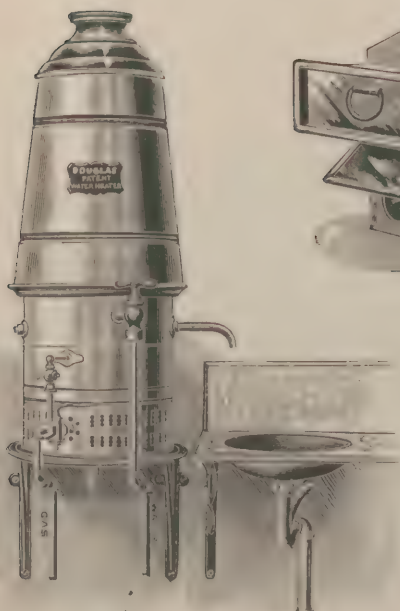
**No. 3615.**

<b>3615.</b>	Sterilizing Oven, inside measure, $9 \times 9 \times 12$ inches, . . . . .	12 00
<b>3616.</b>	" " " $9 \times 9 \times 15$ " . . . . .	15 00
<b>3617.</b>	" " " $9 \times 9 \times 18$ " . . . . .	17 00
<b>3618.</b>	Van Heusen's Compress Heater and Sterilizer:—	
	No. 1, $7\frac{1}{2} \times 11\frac{1}{2}$ inches, full copper, . . . . .	8 00
	No. 2, $8 \times 16$ " " . . . . .	14 00
	No. 3, $12 \times 24$ " " . . . . .	25 00

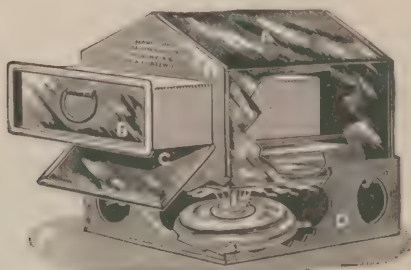
The boldface numbers represent instruments illustrated.

# C. H. GOLDTHWAITE & CO.,

NO.	PRICE.
3625. Arched Frame, to protect the limb from pressure of bed clothing,	\$2 00
3630. Instantaneous Water Heater, Douglas', diameter 9 inches, height 28 inches. Specially designed for doctors, dentists, and where small quantities of hot water are required instantly:—	
Copper, . . . . .	20 00
Nickel, . . . . .	23 00
Iron shelf for above, . . . . .	1 50
Nickel-plated shelf for above, . . . . .	2 50



**3630.**



**3618.**

The boldface numbers represent instruments illustrated.

# Fairchild Bros. & Foster

OFFER TO THE MEDICAL PROFESSION

PURE, ACTIVE, RELIABLE PREPARATIONS OF THE DIGESTIVE  
FERMENTS IN EVERY PERMANENT AND  
USEFUL FORM.

**The Pancreatic Ferments** in the form of pure, dry powder; the well-known *Extractum Pancreatis*, containing all the active principles of the gland.

**The Peptonizing Tubes**, especially devised for peptonizing milk, gruels, etc., by the Fairchild "Practical Recipes."

**Peptogenic Milk Powder**, for the modification of cow's milk to the standard of human milk.

**Compound Pancreatic Tablets** of *Ext. Pancreatis*, bismuth, and ipecac, for intestinal indigestion.

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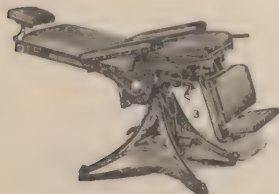
A—Normal adjustment.



C—Full length reclining position.



B—For operations upon the eye, ear, or throat.



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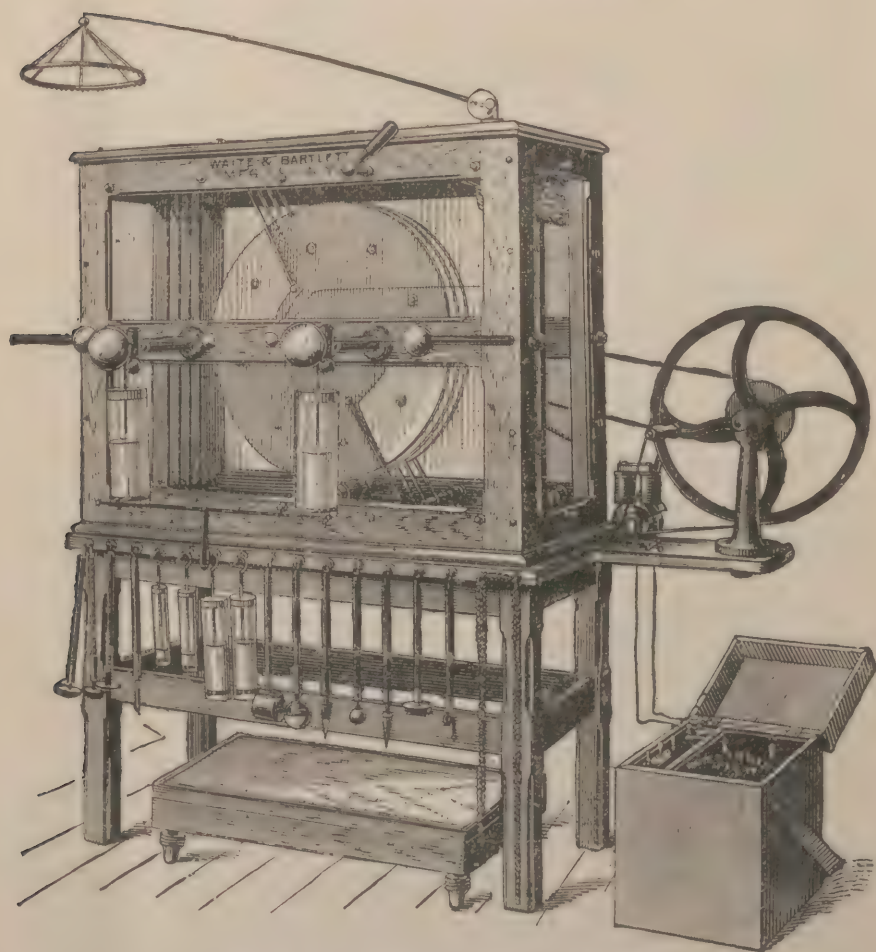
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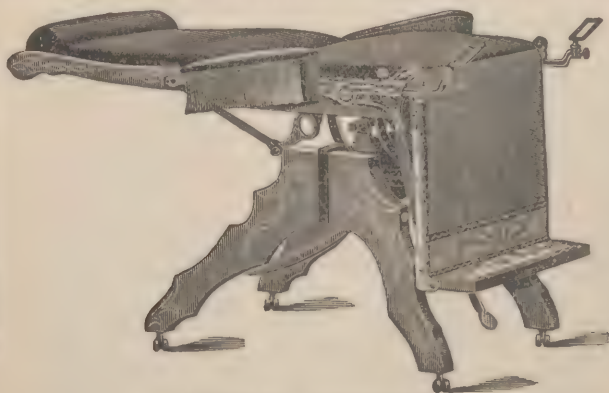
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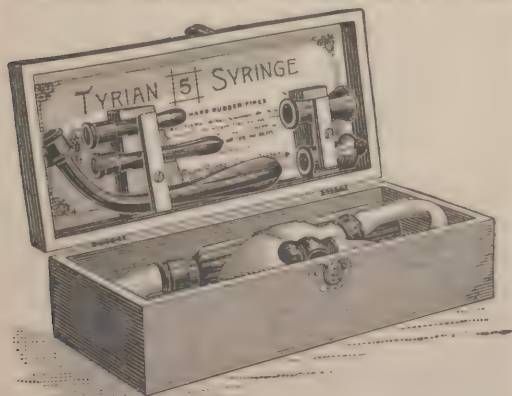
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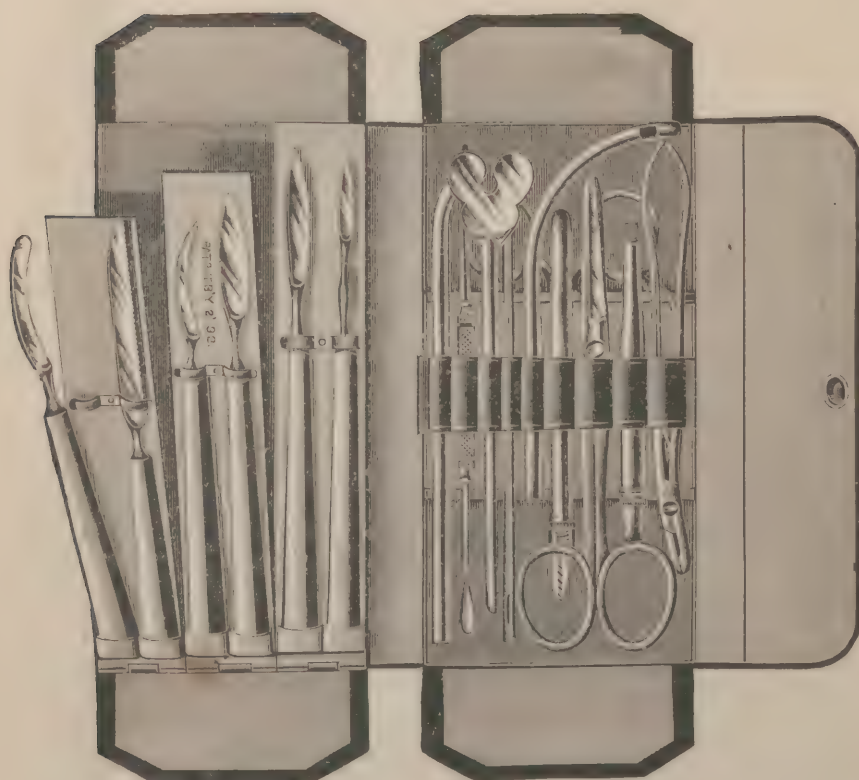
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